infoblox.

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Infoblox WAPI documentation

Introduction

The Infoblox WAPI is an interface based on REST (REpresentational State Transfer), also called a RESTful web API. It uses HTTP methods for operations and supports input and output in JSON and XML.

Notation

The following conventions are used to describe syntax for WAPI methods and objects:

What	Description
objref	A reference to an object. This must be a reference returned from an earlier call. For more information, see Object Reference.
WAPI	Used as a generic start in an URL. In real calls, this needs to be replaced with `/wapi/v2.14` or similar syntax.
objtype	The name of an object type, such as `network`.
field	The name of a field, such as `comment`.
value	The value of an item, such as a field. The value must be quoted according to where it is used. For information, see Naming and Values.
[*thing*]	These brackets are used to signify an optional value.
a | *b*	The symbol `|` is used to indicate that either *a* or *b* can be used.
thing…	`...` is used at the end of an item to signify that it can be repeated multiple times. Items must be separated in accordance with where they are used, such as `&` in arguments.
{ }	These brackets are used to group information in descriptions.

Transport and Authentication

WAPI uses HTTPS (HTTP over SSL/TLS) as the transport mechanism. The server certificate used for WAPI is the same certificate used by NIOS for the GUI and PAPI.

WAPI supports both HTTP basic authentication and certificate-based authentication. For certificate-based authentication, see URL here. It is supported to use the connection for multiple

requests. In this case, authentication is handled by supplying the cookie (`ibapauth`) that was returned after the initial authentication. This cookie can be invalidated by sending a POST request to `/wapi/v2.14/logout`

WAPI supports the same underlying authentication methods that NIOS supports for username and password. All WAPI users must have permissions that grant them access to the API (same as PAPI).

Backward Compatibility

The Infoblox WAPI has a versioning scheme that is independent of the NIOS versioning scheme. The current WAPI version is 2.14.

A current WAPI version is backward compatible with WAPI releases that have the same major WAPI version or with designated earlier major versions. Though the protocol itself may not be strictly backward compatible, the server emulates the correct behavior, when necessary.

For example, a client that uses WAPI version *X* behaves the same way in version *Y* if *X* is supported by *Y* (that is *X* is lower than *Y* and *X* has the same major version as *Y* or *X* uses a major version that is supported by *Y*).

The WAPI protocol is versioned (see URL in General Syntax and Options) independently from NIOS. Refer to the release notes for information about the WAPI version.

Requirements and exceptions:

- Rely on errors returned by HTTP Error Status only, not by text messages or other components.
- New objects and fields may exist in a later WAPI version. Thus, additional fields may be returned and must be ignored.
- New syntaxes and values may be supported. Do not rely on receiving errors for illegal usage.
- In the URL, use the WAPI version that corresponds to the behavior you expect. Do not combine requests using different WAPI versions in the same session or connection.

General Syntax and Options

All WAPI requests consist of three parts; URL, Arguments and Data (body).

URL

The first part of the URL identifies the requests as a WAPI request and specifies the expected version of WAPI. The URL syntax is **wapi/v** *major.minor*, e.g. wapi/v3.4/. The current version of the API is 2.14.

The second part of the URL identifies the resource, such as a network, on which the request operates.

Arguments

CGI query arguments (after ?) can be used to specify general options and method specific options and data for the request. All options start with the character _ (underscore).

The general options are:

Option	Description
_return_type	Data format for returned values; defaults to **json**. Valid choices: **json**, **json-pretty**, **xml**, **xml-pretty**. **-pretty** variants are the same except that they are formatted for readability. For more information, see Data Formats.
_method	An alternative way of specifying HTTP method and overrides the method used. The default is to use the actual HTTP method. Valid choices: **GET**, **PUT**, **DELETE** and **POST**

Argument *key* = *value* pairs must be separated with **&**. The values must be quoted using **%** *xx* notation if they contain the following: =, *&*, +, *%*, or space.

You can specify only atomic values as arguments (i.e. booleans, integers, or strings). You must use a method that contains a body if lists or structures are needed. Example: POST with _method=GET can be used for searching.

In all method descriptions, you can use general options with all requests unless specifically noted.

The methods have additional options as described in their respective sections.

The following table lists the scheduling and approval specific options. Note that you can apply these options only to PUT, POST and DELETE requests.

Option	Description
_schedinfo.scheduled_time	If set, the requested operation will be scheduled for later execution at the specified time (specified in Epoch seconds). A reference to the created scheduledtask object will be returned. Only one of scheduled_time and schedule_now can be set in the request.
_schedinfo.schedule_now	If set to True, the operation will be scheduled for execution at the current time. Note that only scheduled_time or schedule_now can be set in the request.
_schedinfo.predecessor_task	Optional reference to a scheduled task that will be executed before the submitted task.
_schedinfo.warnlevel	Optional warning level for the operation, valid values are ‘WARN’ and ‘NONE’. If not specified, ‘NONE’ will be used.
_approvalinfo.comment	Comment for the approval operation (this can be optional or required depending on the settings for the approval workflow).
	Optional query

_approvalinfo.query_mode	mode for the approval operation. Valid values are “true” or “false”, if this is set to true and the request would have required approval, an error message will be returned. The default value for this is “false”.
_approvalinfo.ticket_number	Ticket number for the approval operation (this can be optional or required depending on the settings for the approval workflow).

Data (Body)

Contains data that is dependent on the method. For information about data format and how to specify it, see Data Formats. Only, PUT, and POST methods can have a Body on input. All methods have Body on output.

Example

The GET request:

```
https://1.2.3.4/wapi/v2.14/networkview?
_return_type=xml-pretty&name=default
```

Returns with a body:

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <is_default
type="boolean">true</is_default>

<_ref>networkview/ZG5zLm5ldHdvcmtfdmlldyQw:defa

    <name>default</name>
  </value>
</list>
```

Naming and Values

WAPI uses a leading underscore (_) for all reserved arguments, fields, and items. Example: **_return_type** and **_ref**.

Fields in objects always start with a letter (a-z) and are followed by a zero or more letters, digits, and underscores. No other characters are used in field identifiers.

Field and argument values must be quoted according to where they are used. Examples:

URL/CGI args, x-www-form-urlencoded:

> Use %xx encoding for “%”, “;”, “/”, “?”, “:”, “@”, “&”, “=”, “+”, “$”, “,” and ” ” (a space)

JSON Data:

> Use JSON quoting, as specified at http://json.org

XML Data

> Use XML quoting (& etc.) as needed for XML.

Values set in WAPI object fields might differ from the effective value used for that particular field during product operation, which could be a value inherited from the Grid or the Grid Member depending on the particular object in question and the state of the object use flags.

Object Reference

WAPI Objects are referenced using their Object References. WAPI returns this reference when an object is created, modified, deleted or read. This reference is used to identify the object for the same operations.

An object reference is a string with the following format, without spaces:

wapitype **/** *refdata* [**:** *name1* [{ **/** *nameN* }…]]

Component	Description
wapitype	The object type being referenced. Example: **network**.
refdata	Opaque internal object identifier. A sequence of letters, digits, “-” (dash) and “_” (underscore).
nameN	Object type dependent name component *N*. The component describes the object being referenced. This is only returned for objects with a defined name format. It is always optional on input and never used by the server.

The documentation for each object type describes the format of its *name* components. Name components are separated by “/” (or only one component without a “/”). Each name component uses the URL quoting method (%xx notation) when necessary (for example if it contains a “/” character).

If the name is defined for the object type, it can be used by a client to get basic information about an object without retrieving the full object. Example: the name of a host. However, an object’s name is not guaranteed to uniquely identify an object unless specifically noted in its description.

The name is not used by the WAPI server on input, and any supplied value is disregarded. For example, a client is free to send a previously returned reference to the server, with or without the name part, including the leading colon (**:**). The result is not affected.

Note that non-ascii values in name are returned using % notation, and should be interpreted as hex-encoded utf-8.

Example:

```
record:cname/ZG5 .... DE:t1.webapi16.foo.bar/default
```

Function Calls

Functions are associated with particular objects. The method specific option _**function** should be used to specify the name of function to call. Only POST method allows function calls. You can use either CGI argument key = value pairs or request’s data(body) to specify values for function arguments. Simultaneous use of CGI arguments and data(body) is not supported.

Example 1

The POST request:

```
https://1.2.3.4/wapi/v2.14/network/
ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/

_function=next_available_ip&num=3
```

Returns with a body:

```
{
    "ips": [
        "10.0.0.1",
        "10.0.0.2",
        "10.0.0.3"
    ]
}
```

Example 2

The POST request:

```
https://1.2.3.4/wapi/v2.14/network/
ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/

_function=next_available_ip
```

Sent with a body:

```
{
    "num": 3
}
```

Returns with a body:

```
{
    "ips": [
        "10.0.0.1",
        "10.0.0.2",
        "10.0.0.3"
    ]
}
```

In addition to using the _**function** option, functions can be invoked by appending the function name to the resource URL to form an **API endpoint**. When the last segment in the URL matches the name of a supported function for a target object, the server treats this as a function call.

Example 3 (Endpoint Form)

The POST request:

```
https://1.2.3.4/wapi/v2.14/network/
ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/

num=3
```

Returns with a body:

```
{
    "ips": [
        "10.0.0.1",
        "10.0.0.2",
        "10.0.0.3"
    ]
}
```

Extensible Attributes

Object types that allow for extensible attributes have a field called extattrs, which can be read by including the name in the _return_fields option of the GET method.

Extensible attributes are sets of name value pairs in which the values can be lists, if the attribute allows for multiple values.

Searching for extensible attributes requires the use of a special syntax, as described under the GET method.

Use Flags

Some fields are associated with a corresponding boolean flag value that has the prefix **use_**. For example, **ttl** is associated with the flag **use_ttl**. In an object, the value of this field will only take effect when its use flag is true. Otherwise, the value will be inherited from a higher level setting.

Use flags and fields that contain the flags behave mostly like other object fields. They are special in the following ways:

- All use flags have names such as “use_*”, where “*” is typically the name of the associated field. Multiple fields may share the same use flag.
- Use flags can be read using **_return_fields**.
- If a field is part of the default fields returned on read (“basic object”), its associated use flag (if any) will also be included in the default set.
- Use flags can be written by PUT or POST requests.
- Writing a field that has a corresponding use flag will automatically set the use flag to true, unless the same request also sets the use flag to false.

Data Formats

Input

The body of the HTTP request contains data for the PUT and POST requests only. The format of the data defaults to JSON, but it can be changed using Content-Type: header. The valid content types are:

Content Type	Description
application/json	JSON format, see http://json.org for more information.
application/xml	XML format, see XML Format for more information.
text/xml	Alternative way to specify application/xml.
	Arguments to method

application/x-www-form-urlencoded	encoded in body. This is the same as specification after **?**, but it can handle longer sequences and is directly supported by HTML forms. If arguments are encoded in the body, CGI query arguments won't be allowed.

Output

Data returned to the client defaults to JSON, but can be changed using either Accept: header or **_return_type**. Accept: takes the same values as Content-Type, listed above (for exceptions to this, see Error Handling); **_return_type** overrides any Accept: header.

XML Format

WAPI uses the following XML constructs:

Element	Description
<list>	Array, child nodes are items in list. Names of child elements are not significant (and can be same).
<*X* type="object">	Object *X*, child nodes are members of object. *X* can be any value if used outside an object context
<*X* type="*T*">	Field *X* of object. Its value is the text of the element. Allowed types (*T*) are int, float, boolean and string (as in XML Schema Definition). String is the default and is not explicitly specified using *type*= on output.
<X null="true"/>	Field X with value null/None.

Field syntax is used for "bare" values in list/array or as single values. *X* is not significant and will always be **value** on output.

No name spaces are used or specified.

Example: XML (xml-pretty style):

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <comment null="true"/>

<_ref>network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvOC8w:20.0.0.0/8

    <disable type="boolean">false</disable>
    <network>20.0.0.0/8</network>
```

```
    <network_view>default</network_view>
  </value>
</list>
```

If *X* is considered an illegal XML tag name, or if it begins with “tag” and is followed by a number it will be renamed to tag0-N and an additional “name” property will be added on retrieval and expected on input. For example, the XML for an object with extensible attributes that contain spaces in their names would look like the following:

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <network>8.0.0.0/8</network>
    <extattrs type="object">
      <tag0 name="12345" type="object">
        <value>d</value>
      </tag0>
      <tag1 name="tag0" type="object">
        <value>c</value>
      </tag1>
      <tag2 name="this is a test" type="object">
        <value>b</value>
      </tag2>
    </extattrs>

<_ref>network/ZG5zLm5ldHdvcmskOC4wLjAuMC84LzA:8.0.0.0/8/d

  </value>
</list>
```

Error Handling

All errors return a HTTP status code of 400 or higher.

All methods use the following generic error status codes. Specific return codes used for a method are specified for each method.

Status	Description
400	**Bad Request**. The request from the client is incorrect. This could be syntax errors in the request or data conflict issues on the server side. The request should not be repeated as is unless the error condition has been cleared (i.e. either the request syntax corrected or the state of the database changed.)
500	**Server Error**. The error was not caused by any error in the request. Depending on the error the request may be successfully repeated as is. If not possible to resolve, please report to Infoblox (including the full error return with the “trace”).

4xx codes refer to errors caused by the request or the data. To some extent, all of these are user errors.

5xx codes refer to server or internal errors. These errors point to deficiency in the server code and are not usually possible under normal conditions.

When the server returns an error with status code >= 400, the body is always in JSON format, irrespective of any Accept or _return_types.

The returned message conforms to JSON, but is formatted to ensure that the first line of the body always contains the text “Error,” an error type, and an error message.

A client that only gives a description of the error can simply show the first returned line.

The full returned error data is an object with the following fields (all values are strings):

Field	Value
Error	Error type (followed by an explanation after **:**).
code	Symbolic error code.
text	Explanation of the error.
trace	Debug trace from the server, only if debug is on.

Example of Error Return (trace shortened):

```
{ "Error": "AdmConProtoError: Unknown argument/field:
netwdork",
  "code": "Client.Ibap.Proto",
  "text": "Unknown argument/field: netwdork",
  "trace": "  File "/infoblox/common/lib/python/info..."
}
```

Methods

GET

Search and Read Objects: GET Method

HTTP GET is used to read a single object or to search for objects.

Syntax

GET *WAPI* **/** *objref* [**?** *option*…]

or

GET *WAPI* **/** *objtype* [**?** { *option* | *condition* }…]

or

GET *WAPI* **/** *objtype* **/** *uuid* [**?** *option*…]

Description

GET is used to read objects. The objects to read can be specified either:

- By using an Object Reference (*objref*) to read one specific object
- By using a UUID (*uuid*) with explicit object type to read one specific object
- By searching for objects of a specific type (*objtype*) with the given search conditions

Note: When using UUID-based access, the object type must be explicitly specified in the URL before the UUID (e.g., */wapi/v2.14/objtype/uuid_string*, not */wapi/v2.14/uuid_string*).

Arguments to the search (*objtype*) form are field names and values to match. If no arguments are used, all objects for the object type *objtype* are returned.

The number of objects returned is limited by the option _max_results or, if _max_results is not specified, 1000 objects. If _max_results is not specified, the appliance returns an error when the number of returned objects would exceed 1000. Similarly, if _max_results is set to -500 (maximum of 500 objects) the appliance returns an error if the number of returned objects would exceed 500.

Options

Method Option	Description
_max_results	Maximum number of objects to be returned. If set to a negative number the appliance will return an error when the number of returned

	objects would exceed the setting. The default is -1000. If this is set to a positive number, the results will be truncated when necessary.
_return_fields	List of returned fields separated by commas. The use of _return_fields repeatedly is the same as listing several fields with commas. The default is the basic fields of the object.
_return_fields+	Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).
_return_as_object	If set to 1, a results object will be returned (see below for more information). If not specified, it defaults to 0.
_paging	If set to 1, the request is considered a paging request (see below for more information). If not specified, it defaults to 0. If set, _max_results must also be set.
_page_id	If set, the specified page of results will be

	returned.
_proxy_search	If set to ‘GM’, the request is redirected to Grid master for processing. If set to ‘LOCAL’, the request is processed locally. This option is applicable only on vConnector grid members. The default is ‘LOCAL’.
_schema	If this option is specified, a WAPI schema will be returned (see below for more information).
_schema_version	If this option is specified, a WAPI schema of particular version will be returned. If options is omitted, schema version is assumed to be 1. For the full list of available versions please refer to information below.
_get_doc	If this option is specified, a WAPI schema with documentation will be returned. Applicable only when _schema_version is 2.
	If this option is specified, search only fields will

_schema_searchable	also be returned. Applicable only when _schema_version is 2.
_inheritance	If this option is set to True, fields which support inheritance, will display data properly.

Arguments

There can be no arguments to objtype or it can have one or multiple conditions in the following format:

{ field | * attribute [<space>] } [modifiers] = value

Where:

field is a documented field of the object.

attribute is the name of an extensible attribute. Must be prefixed by an asterisk (*) and optionally followed by a single space.

modifiers is optional and can be one or more search modifiers supported by the field or extensible attribute value type.

value is the value or regular expression to search for.

When combining multiple conditions, all must be satisfied in order to match an object (i.e. conditions are combined with AND).

When a field is a list or an extensible attribute that can have multiple values, the condition is true if any value in the list matches.

If no modifiers are used, it is an exact match.

Search Modifiers

A search argument can use the following modifiers:

Modifier	Functionality
!	Negates the condition.
:	Makes string matching case insensitive.
~	Regular expression search. Expressions are unanchored.
<	Less than or equal.
>	Greater than or equal.

Only one of the following can be specified at one time: greater than, less than, and regular expressions.

You can find the modifiers that are supported by each field in the respective documentation. Unsupported combinations will result in an error.

Depending on the attribute type, following are modifiers supported by extensible attributes:

integer and date support !, < and >. All other types behave like strings and support !, ~ and :.

Data Returned

The return format depends on the type of request:

- **Object reference form** (*objref*): Returns a single object (not a list)
- **UUID form** (*objtype/uuid*): Returns a single object (not a list), identical to object reference form
- **Search form** (*objtype*): Returns a list of objects (even if zero or one objects is returned)

Objects returned will by default consist of a set of basic fields, as listed in the documentation. The option **_return_fields** can be used to request a specific set of fields to return.

Fields that have no value (not set in the NIOS database) or that are not allowed

to be accessed by the user because of group access rights will not be returned (i.e. silently left out of the result).

Returned objects will also contain a _**ref** field, containing the reference of the object. This can be used in subsequent calls that require a reference. For objects that support UUIDs, a **uuid** field will also be included when available.

If a search matches no objects, an empty list will be returned.

If a results object is requested, an object with the following fields will be returned:

Field	Present	Description
result	Always	Actual result of the read operation, this is a list of objects.
next_page_id	Optional	If there was a paging request, this is the ID for the next page of results.

Some fields refer to other subobjects. Some of these fields also support nested return fields (see the field's 'Type' section for more information). In the case of nested return fields, you can request specific fields of the subobject by concatenating them to the parent field using the '.' (period) character.

For example, during a search for record:host, you can request the return of the 'bootserver' field in subobject 'ipv4addrs' by passing a return field in the form of 'ipv4addrs.bootserver'. You can also specify subobject fields as part of a _return_fields+ invocation. In this case, the specified return field will be returned in addition to the standard fields for the specified subobject.

If an empty subobject field is passed, and the subobject field is a reference-

only nest return field, it is equivalent to asking for the standard fields of that subobject. This can be useful if the subobject field returns only the reference of the subobject by default. For example, in the ‘permission’ object, the ‘object’ field normally contains only the reference of the object to which the permission applies. To request the standard fields for the object, you must explicitly reference the field name preceded by the keyword “object” and a period “.” For example, _return_fields=object.fqdn

If a field can support multiple object types, for example ‘record’ inside allrecords, only fields common to all the multiple object types should be specified as subobject fields. Otherwise if a subobject for which the subfield is not valid exists, an error would be returned.

Return Status/Errors

Status	Description
200	Normal return. Referenced object or result of search in body.
400	Results set would contain more than _max_results objects (only generated if _max_results is negative), or invalid UUID format.
404	Referenced object not found (if *objref* or *uuid* form is used, empty list and 200 is returned for empty search result)

Results paging

For searches that return a large number of results, paging is desirable.

To start a paging request, the initial search request must have **_paging** and **_return_as_object** set to 1, and **_max_results** set to the desired page size.

The server will then return a results object that contains the **next_page_id** field and the result field set to the first page of results.

Note that the next_page_id field only contains URL-

safe characters so it can be used as is and no quotation characters are required for subsequent requests.

To get more results, you should send GET requests to the original object and set **_page_id** to the ID string returned in the previous page of results.

The server does not return a **next_page_id** field in the last page of results. Paging requests are considered independent requests, so the set of results might change between requests if objects are added or removed from the server at the same time when the requests are occurring.

For an invocation example, see the sample code section in the manual here.

WAPI Schema Fetching

If the **_schema** option is passed, the request will execute a schema fetch. Other options, such as **_max_results**, **_return_fields**, etc., will be ignored.

The WAPI schema returned in the format requested using either the Accept: header or **_return_type** as specified by WAPI.

Note that this is not intended to be a schema as defined by JSON or XML standards.

If a WAPI schema is requested using the **_schema** option without specifying **objtype**, an object with the following fields will be returned:

Field	Description
requested_version	Actual requested version of the WAPI schema.
supported_objects	List of supported objects in the requested version.
supported_versions	List of all supported versions.

Example. Use a GET request to get the WAPI schema:

```
https://1.2.3.4/wapi/v1.0/?_schema
```

Returns with a body (lists shortened):

```
{ "requested_version": "1.0",
  "supported_objects":
["ipv4address", "ipv6address",
"ipv6network",

"ipv6networkcontainer",
"ipv6range",

"macfilteraddress", "network",
...],
  "supported_versions": ["1.0",
"1.1", "1.2", "1.2.1", ...]
}
```

If the described above is done specifying **_schema_version=2**, then following field will be returned additionally:

Field	Description
schema_version	The version of schema description requested.
supported_schema_versions	List of supported versions for schema description.

Example:

```
https://1.2.3.4/wapi/v2.5/?
_schema=1&_schema_version=2
```

Returns with a body (lists shortened):

```
{ "requested_version": "2.5",
  "schema_version": "2",
  "supported_schema_versions":
["1", "2",],
  "supported_objects":
["ad_auth_service", ... ],
  "supported_versions":
["2.3","2.5", ... ]
}
```

If the *objtype* is specified for WAPI schema fetching, an object with the following fields will be returned:

Field	Description
cloud_additional_restrictions	List of cloud restrictions.

fields	List of fields of the object.
restrictions	List of object restrictions.
type	Requested *objtype*.
version	Actual requested version of the WAPI object schema.

The fields specific to schema description #2:

Field	Description
schema_version	The version of schema description requested.
wapi_primitive	Determines if the requested WAPI primitive is object, structure or function call.

The list of object restrictions that contain supported operations for the object. Example of operations: “create”, “delete”, “read”, “update”, “function call”, “permissions”, “global search”, “scheduling”, “csv”.

The cloud_additional_restrictions field contains the list of additional unsupported operations when using Cloud Network Automation. Example of operations: “all”, “create”, “delete”, “read”, “update”, “function call”, “permissions”, “global search”, “scheduling”, “csv”.

The returned **fields** list is composed by individual objects each describing a field of the API object. These objects have the following members:

Parameter	Description
is_array	True if this field is an array.

name	Name of this field.
searchable_by	String with supported search modifiers: “=”, “!”, “:”, “~”, “<”, “>”.
standard_field	True for fields that are returned by default.
supports	List of supported operations: “s”, “w”, “u”, “r”.
type	List of supported types.
wapi_primitive	Determines if the requested WAPI primitive is object, structure or function call.

The fields specific to schema description #2:

Field	Description
schema_version	The version of schema description requested.
wapi_primitive	Determines if the requested WAPI primitive is object, structure or function call.
supports_inline_funccall	Determines if the field can be initialized by calling an inline function.
doc	The documentation of this field. It’s applicable only when **_get_doc=1** is used. The returned documentation string might contain ReStructuredText directives.

The version #2 delivers all information regarding structures and function calls.

Please keep in mind that **enum_values** is changed in #2. It cannot be a dictionary, as it was in #2, but a list.

Example. Use a GET request to get the 'networkview' WAPI object schema for WAPI version 1.4:

```
https://1.2.3.4/wapi/v1.4/networkview
_schema
```

Returns with a body (lists shortened):

```
{ "cloud_additional_restrictions":
["all"],
  "fields": [{
      "is_array": false,
      "name": "comment",
      "searchable_by": ":=~",
      "standard_field": true,
      "supports": "rwus",
      "type": ["string"]
  }, {
      "is_array": false,
      "name": "name",
      "searchable_by": ":=~",
      "standard_field": true,
      "supports": "rwus",
      "type": ["string"]
  }, ...],
  "restrictions": ["scheduling",
"csv"],
  "type": "networkview",
  "version": "1.4"
}
```

Example of new information for version #2 (the same request as above but different **objtype** and HTTP arguments:

```
https://1.2.3.4/wapi/v2.14/grid?
_schema=1&
  _schema_version=2&_get_doc=1
```

Returns with a body (lists shortened and cut):

```
{ "doc": "Test connectivity to the
REST API endpoint.",
  "is_array": false,
  "name": "test_connection",
  "schema": {
  "input_fields": [],
  "output_fields": [
    { "doc": "The overall status of
connectivity test.",
      "enum_values": [
        "FAILED",
        "SUCCESS"
      ],
```

```
      "is_array": false,
      "name": "overall_status",
      "supports": "r",
      "type": ["enum"]
    },
    { "doc": "The test connectivity
failed error message.",
      "is_array": false,
      "name": "error_message",
      "supports": "r",
      "type": ["string"]
    }
  ]
  },
  "standard_field": false,
  "supports": "rwu",
  "type":
["testconnectivityparams"],
  "wapi_primitive": "funccall"
},
{ "doc": "The notification REST
template instance. The parameters
of
          REST API endpoint
template instance are prohibited to
          change.",
  "is_array": false,
  "name": "template_instance",
  "schema": {
    "fields": [
      { "doc": "The name of REST
API template parameter.",
        "is_array": false,
        "name": "template",
        "supports": "rwu",
        "type": ["string"]
      },
      { "doc": "The notification
REST template parameters.",
        "is_array": true,
        "name": "parameters",
        "supports": "rwu",
        "type":
["notification:rest:templateparameter

      }
    ]
  },
  "standard_field": false,
  "supports": "rwu",
  "type":
["notification:rest:templateinstance"

  "wapi_primitive": "struct"
},
```


WAPI Inheritance Data Fetching

If the _**inheritance** option is passed and set to True, the request will fetch inheritance data. Inheritance data will only show for fields which were queried and support this mode. Inheritance support started from version 2.10.2.

In case of basic inheritance, an object with following fields will be returned:

Field	Description
inherited	Flag to display whether value was inherited or not.
multisource	Flag to display if value was inherited from multiple sources.
source	String containing WAPI reference to source of data. Empty string if data belongs to a queried object.
value	Actual value.

Example. Use a GET request to get the ‘grid’ object’s ‘ipam_threshold_settings’ and inheritance info, if needed:

```
https://1.2.3.4/wapi/v2.10.3/network?
_inheritance=True

&_return_fields=ipam_threshold_settir
```

Output when object’s data is shown:

```
{
  "ipam_threshold_settings": {
    "inherited": false,
    "multisource": false,
    "source": "",
    "value": {
      "reset_value": 86,
      "trigger_value": 96
    }
  }
},
```

Output when inherited data is shown:

```
{
  "ipam_threshold_settings": {
    "inherited": true,
    "multisource": false,
    "source":
"grid/b25lLmNsdXN0ZXIkMA:Infoblox",
    "value": {
      "reset_value": 85,
      "trigger_value": 95
    }
  }
},
```

In case of multiple inheritance, array of

values with their sources will be shown. An object with following fields will be returned:

Field	Description
inherited	Flag to display whether value was inherited or not.
multisource	Flag to display if value was inherited from multiple sources.
values	List of structs, describing values, inherited from multiple source. Structure described below.

Structure of ‘values’ object:

Field	Description
source	String containing WAPI reference to source of data. Cannot be empty.
value	Actual value.

Example of query:

```
https://1.2.3.4/wapi/v2.10.3/network?
_inheritance=True

&_return_fields=pxe_lease_time
```

Output:

```
{
  "pxe_lease_time": {
    "inherited": true,
    "multisource": true,
    "values": [
      {
        "source":
"grid:dhcpproperties/ZG5zLmNX9wZXJ0aw

        "value": 43200
      },
      {
        "source":
"member:dhcpproperties/ZG5zMkMA:infob

        "value": 403200
      }
    ]
  }
},
```

In case if the object of inheritance is a

list consisting of structs and every item of this list is inherited independently, items will be grouped by their sources. Some items may appear several times if they are inherited from multiple sources.

Structure of such groups is described below:

Field	Description
inherited	Flag to display whether value was inherited or not.
source	String containing WAPI reference to source of data. Empty string if data belongs to a queried object.
value	List of structs, inherited from given source.

Example of query:

```
https://1.2.3.4/wapi/v2.10.3/network?
_inheritance=True
       &_return_fields=options
```

Output:

```
{
  "options": [
    {
      "inherited": true,
      "source":
"member:dhcpproperties/ZG5zL1lByb3Blc

      "values": [
        {
          "name": "subnet-mask",
          "num": 1,
          "value": "255.255.254.0",
          "vendor_class": "DHCP"
        }
      ]
    },
    {
      "inherited": true,
      "source":
"member:dhcpproperties/ZG5zLXMkMA:inf

      "values": [
        {
          "name": "subnet-mask",
          "num": 1,
          "value": "255.255.255.0",
          "vendor_class": "DHCP"
        }
      ]
    },
    {
      "inherited": true,
```

```
      "source":
"grid:dhcpproperties/ZG5zLmNXN0Z9wZXJ

      "values": [
        {
          "name": "dhcp-lease-
time",
          "num": 51,
          "use_option": False,
          "value": "43200",
          "vendor_class": "DHCP"
        }
      ]
    }
  ]
},
```


POST

Create Object: POST Method

The POST method is used to create a new object. It can also be used for all other operations via the the wapi object

Syntax

POST *WAPI* **/** *objtype* [**?** { *options* | *field* **=** *value* }…]

Description

The data for the request must contain all required fields of the *objtype*. Data can be given as arguments as shown above or as the body of the request (but not both).

Options

Method Option	Description
_return_fields	A list of returned fields separated by commas. The use of _return_fields repeatedly is the same as listing several fields with commas. The default is the basic fields of the object.
_return_fields+	Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).
_inheritance	If this option is set to True, fields which support inheritance, will display data

properly.

Options can be given only as query arguments as shown above, they cannot be included in the body of the request.

Arguments

Arguments can be used to supply the object instead of using the body.

Data (Body)

Data for object to be created. Can be used as alternative to arguments. All fields marked as required for the object must be supplied. All fields not supplied will be defaulted as specified for the object. See Use Flags for information about special handling for these fields.

Data Returned

The return format depends on whether the object supports UUIDs and the _return_fields option:

- **Objects with UUID support (default)**: Returns both Object Reference and UUID:

```
{
    "_ref":
"objtype/reference_string",

    "uuid": "uuid_string"
}
```

- **If Not UUID supported, Legacy objects (default)**: Returns only Object Reference of the object created as a string:

```
objtype/reference_string
```

- **With _return_fields specified**: Returns the created object as a dictionary with requested fields. For objects with UUID support, the UUID will be included:

```
{
  "_ref":
"objtype/reference_string",

  "uuid": "uuid_string",
```

```
  "field1": "value1",
  "field2": "value2"
}
```

- **With empty _return_fields**: Returns both Object Reference and UUID if UUID supported else only Object Reference as a string.
- **With _return_fields+**: Returns standard fields plus any additional specified fields.

If required, specify the '_return_fields' option to examine the values of fields that were set by the appliance as part of the insertion. It is possible for the appliance to return the newly inserted object, instead of a reference string.

Passing an empty value to the '_return_fields' option will cause only the object reference to be set inside the returned object. Passing an empty value to the '_return_fields+' option will cause the returned object to contain its standard fields. Passing any other values will return the specified fields.

Return Status/Errors

Status	Description
201	Object created (success)

PUT

Update Object: PUT Method

The PUT method is used to update an existing object. The syntax of PUT is:

Syntax

PUT *WAPI* **/** *objref* [**?** { *option* | *field* **=** *value* }…]

or

PUT *WAPI* **/** *objtype* **/** *uuid* [**?** { *option* | *field* **=** *value* }…]

Description

PUT is used to update an existing object. The object can be specified either by:

- Using an Object Reference (*objref*) - traditional base64-encoded reference
- Using a UUID (*uuid*) - 32-character hexadecimal UUID string for supported objects

Note: When using UUID-based updates, the object type must be explicitly specified in the URL before the UUID (e.g., */wapi/v2.14/zone_auth/uuid_string*, not */wapi/v2.14/uuid_string*).

Options

Method Option	Description
_return_fields	List of returned fields separated by commas. The use of _return_fields repeatedly is the same as listing several fields with commas. The default is the basic fields of the object.
_return_fields+	Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).
_inheritance	If this option is set to True, fields which support inheritance, will display data properly.

Options can be given only as query arguments as shown above, they cannot be included in the body of the request.

Arguments

The data to be updated can be given as argument as shown in the syntax or as the body of the request (but not both).

Data (Body)

Data for object to be updated. Can be used as alternative to arguments.

Data Returned

The return format depends on the _return_fields option and whether the object supports UUIDs:

- **Without _return_fields**:

Returns the updated object as a dictionary. For objects with UUID support, the UUID will be included:

```
{
    "_ref":
"objtype/reference_string",

    "uuid": "uuid_string"
}
```

- **Else**: Only the object reference as a string:

```
objtype/reference_string
```

- **With _return_fields specified**: Returns the updated object as a dictionary. For objects with UUID support, the UUID will be included:

```
{
  "_ref":
"objtype/reference_string",

  "uuid": "uuid_string",
  "field1": "value1",
  "field2": "value2"
}
```

- **With empty _return_fields**: Returns object reference and UUID by default inside a dictionary.
- **With _return_fields+**: Returns standard fields plus any additional specified fields.

If required, specify the '_return_fields' option to examine the values of fields that were set by the appliance as part of the update. It is possible for the appliance to return the newly updated object, instead of a reference string.

Passing an empty value to the '_return_fields' option will cause only the object reference to be set inside the returned object. Passing an empty value to the '_return_fields+' option will cause the returned object to contain its standard fields. Passing any other values will

return the specified fields.

Return Status/Errors

Status	Description
200	Object updated (success)

DELETE

Delete Object: DELETE Method

The DELETE method is used to delete an object.

Syntax

DELETE *WAPI* **/** *objref* [**?** *option*…]

or

DELETE *WAPI* **/** *objtype* **/** *uuid* [**?** *option*…]

Description

DELETE is used to delete an existing object. The object can be specified either by:

- Using an Object Reference (*objref*) - traditional base64-encoded reference
- Using a UUID (*uuid*) - 32-character hexadecimal UUID string for supported objects

Note: When using UUID-based deletion, the object type must be explicitly specified in the URL before the UUID (e.g., */wapi/v2.14/view/uuid_string*, not */wapi/v2.14/uuid_string*).

Options

There are no DELETE specific options.

Arguments

There are no general DELETE arguments. Some of the objects has object-specific DELETE arguments, which are described in the 'Delete arguments' section of their respective documentation.

Data Returned

The return format depends on whether the object supports UUIDs:

- **Objects with UUID support**: Returns a dictionary containing

both the Object Reference and UUID:

```
{
  "_ref":
"objtype/reference_string",

  "uuid": "uuid_string"
}
```

- **Legacy objects**: Returns the Object Reference of the deleted object as a string:

```
objtype/reference_string
```

Return Status/Errors

Status	Description
200	Object deleted (success)

Objects

- ad_auth_service : Active Directory Authentication Service object.
- admingroup : Admin Group object.
- adminrole : Admin Role object.
- adminuser : Admin User object.
- allendpoints : All Endpoints object.
- allnsgroup : All NS Group object.
- allrecords : AllRecords object.
- allrpzrecords : DNS All RPZ Records object.
- approvalworkflow : The approval workflow object.
- authpolicy : The authentication policy object.
- awsrte53taskgroup : AWS Route53 task group object.
- awsuser : AWS User object.
- azurednstaskgroup : Azure DNS task group object.
- azureuser : Azure User object.
- bfdtemplate : BFD template object.
- bulkhost : Bulkhost object.
- bulkhostnametemplate : The bulk host name template object.
- cacertificate : CA Certificate object.
- capacityreport : Grid member capacity report object.
- captiveportal : Captive portal object.
- certificate:authservice : Certificate authentication service object.
- csvimporttask : CSV Import task object.
- datacollectioncluster : DATA collection cluster object.
- db_objects : The DB Objects object.
- dbsnapshot : The DBSnapshot WAPI object.

- ddns:principalcluster : DDNS Principal Cluster object.
- ddns:principalcluster:group : DDNS Principal Cluster Group object.
- deleted_objects : The Deleted Objects object.
- dhcp:statistics : DHCP Statistics object.
- dhcpfailover : DHCP Failover Association object.
- dhcpoptiondefinition : DHCP option definition object.
- dhcpoptionspace : DHCP option space object.
- discovery : Discovery object.
- discovery:credentialgroup : The Credential group object.
- discovery:device : Discovery Device object.
- discovery:devicecomponent : Device Component object.
- discovery:deviceinterface : Device Interface object.
- discovery:deviceneighbor : Device Neighbor object.
- discovery:devicesupportbundle : Device support bundle object.
- discovery:diagnostictask : The discovery diagnostic task object.
- discovery:gridproperties : The Grid discovery properties object.
- discovery:memberproperties : The Grid discovery member properties object.
- discovery:sdnnetwork : The SDN network object.
- discovery:status : Discovery Status object.
- discovery:vrf : The VRF object.
- discoverytask : The discovery task object.
- distributionschedule : Distribution schedule object.
- dns64group : DNS64 synthesis group object.
- dtc : DTC object.
- dtc:allrecords : DTC AllRecords object.
- dtc:certificate : DTC Certificate object.
- dtc:lbdn : DTC LBDN object.
- dtc:monitor : DTC monitor object.
- dtc:monitor:http : DTC HTTP monitor object.
- dtc:monitor:icmp : DTC ICMP monitor object.
- dtc:monitor:pdp : DTC PDP monitor object.
- dtc:monitor:sip : DTC SIP monitor object.
- dtc:monitor:snmp : DTC SNMP monitor object.
- dtc:monitor:tcp : DTC TCP monitor object.
- dtc:object : DTC object.
- dtc:pool : DTC Pool object.
- dtc:record:a : DTC A Record object.
- dtc:record:aaaa : DTC AAAA Record object.
- dtc:record:cname : DTC CNAME Record object.
- dtc:record:naptr : DTC NAPTR Record object.
- dtc:record:srv : DTC SRV Record object.
- dtc:server : DTC Server object.
- dtc:topology : DTC Topology object.
- dtc:topology:label : DTC Topology Label object.
- dtc:topology:rule : DTC Topology Rule object.
- dxl:endpoint : The Data Exchange Layer endpoint object.
- extensibleattributedef : Extensible Attribute Definition

object.
- federatedrealms : Federated realms object.
- fedipamop : Federated IPAM operations object.
- fileop : File operations object.
- filterfingerprint : DHCP Fingerprint Filter object.
- filtermac : DHCP MAC Address Filter object.
- filternac : DHCP NAC Filter object.
- filteroption : DHCP filter option object.
- filterrelayagent : The filter relay agent object.
- fingerprint : DHCP Fingerprint object.
- fixedaddress : DHCP Fixed Address object.
- fixedaddresstemplate : The fixed address template object.
- ftpuser : FTP user object.
- gcpdnstaskgroup : Gcp DNS task group object.
- gcpuser : GCP User object.
- gmcgroup : GMC group object.
- gmcschedule : GMC schedule object.
- grid : Grid object.
- grid:cloudapi : Grid Cloud API object.
- grid:cloudapi:cloudstatistics : Grid Cloud Statistics object.
- grid:cloudapi:tenant : Grid Cloud API Tenant object.
- grid:cloudapi:vm : Grid Cloud API vm object.
- grid:cloudapi:vmaddress : Grid Cloud API VM address object.
- grid:dashboard : Grid Dashboard object.
- grid:dhcpproperties : Grid DHCP properties object.
- grid:dns : Grid DNS properties object.
- grid:filedistribution : Grid file distribution object.
- grid:license_pool : Grid License Pool object.
- grid:license_pool_container : Grid License Pool Container object.
- grid:maxminddbinfo : Topology DB Info object.
- grid:member:cloudapi : Member Cloud API object.
- grid:servicerestart:group : Service Restart Group object.
- grid:servicerestart:group:order : Restart Group Order object.
- grid:servicerestart:request : Restart Request object.
- grid:servicerestart:request:changedobject : Grid service restart request changed object.
- grid:servicerestart:status : Restart Status object.
- grid:threatinsight : Grid threat insight object.
- grid:threatprotection : The Grid threat protection object.
- grid:x509certificate : X509Certificate object.
- hostnamerewritepolicy : Hostname rewrite policy object.
- hsm:allgroups : All Hardware Security Module groups object.
- hsm:entrustnshieldgroup : The Entrust nShield Harware Security Module group object.
- hsm:safenetgroup : The Hardware Security Module SafeNet group object.
- hsm:thalesgroup : The Thales Hardware Security Module group object.

- hsm:thaleslunagroup : The Hardware Security Module Thales Luna group object.
- ipam:statistics : IPAM statistics object.
- ipv4address : IPAM IPv4Address object.
- ipv6address : IPAM IPv6Address object.
- ipv6dhcpoptiondefinition : DHCP IPv6 option definition object.
- ipv6dhcpoptionspace : DHCP IPv6 option space object.
- ipv6filteroption : DHCP filter option object.
- ipv6fixedaddress : DHCP IPv6 Fixed Address object.
- ipv6fixedaddresstemplate : The IPv6 fixed address template object.
- ipv6network : DHCP IPv6Network object.
- ipv6networkcontainer : DHCP IPv6NetworkContainer object.
- ipv6networktemplate : DHCP IPv6 network template object.
- ipv6range : DHCP IPv6 Range object.
- ipv6rangetemplate : IPv6 DHCP Range template object.
- ipv6sharednetwork : DHCP IPv6 Shared Network object.
- kerberoskey : Kerberos key object.
- ldap_auth_service : The LDAP authentication service object.
- lease : DHCP Lease object.
- license:gridwide : Gridwide license object.
- localuser:authservice : Local user authentication service object.
- macfilteraddress : MAC Filter Address object.
- mastergrid : Master Grid object.
- member : Member object.
- member:dhcpproperties : Member DHCP properties object.
- member:dns : Member DNS object.
- member:filedistribution : Grid member file distribution object.
- member:license : Member License object.
- member:parentalcontrol : Member mobile security properties object.
- member:threatinsight : Grid member threat insight object.
- member:threatprotection : Member threat protection object.
- membercloudsync : MemberCloudSync object.
- memberdfp : Memberdfp object.
- msserver : Microsoft Server object.
- msserver:adsites:domain : Active Directory Domain object.
- msserver:adsites:site : Active Directory Site object.
- msserver:dhcp : Microsoft Server DHCP properties object.
- msserver:dns : Microsoft Server DNS properties object.
- mssuperscope : Microsoft DHCP superscope object.
- multiregions : MultiRegions object.

- namedacl : Named ACL object.
- natgroup : Network Address Translation group object.
- network : DHCP Network object.
- network_discovery : Network discovery object.
- networkcontainer : DHCP Network Container object.
- networktemplate : DHCP Network template object.
- networkuser : Network User object.
- networkview : DHCP NetworkView object.
- notification:rest:endpoint : The notification RESTful endpoint object.
- notification:rest:template : The notification REST template object.
- notification:rule : Notification rule object.
- nsgroup : DNS name server group object.
- nsgroup:delegation : NS group delegation object.
- nsgroup:forwardingmember : Forwarding Member Name Server Group object.
- nsgroup:forwardstubserver : Forward Stub Server Name Server Group object.
- nsgroup:stubmember : Stub Member Name Server Group object.
- orderedranges : Ordered DHCP ranges object.
- orderedresponsepolicyzones : Ordered Response Policy Zones object.
- outbound:cloudclient : OutBoundCloudClient object.
- parentalcontrol:avp : The parental control AVP object.
- parentalcontrol:blockingpolicy : Parental control blocking policy object.
- parentalcontrol:subscriber : The parental control subscriber object.
- parentalcontrol:subscriberrecord : Parental control subscriber record object.
- parentalcontrol:subscribersite : Subscriber site parental control properties object.
- permission : Permissions object.
- pxgrid:endpoint : The PXGrid endpoint object.
- radius:authservice : The RADIUS authentication service object.
- range : DHCP Range object.
- rangetemplate : DHCP Range template object.
- record:a : DNS A record object.
- record:aaaa : DNS AAAA record object.
- record:alias : DNS Alias record object.
- record:caa : DNS CAA record object.
- record:cname : DNS CNAME record object.
- record:dhcid : DNS DHCID record object.
- record:dname : DNS DNAME record object.
- record:dnskey : DNS DNSKEY record object.
- record:ds : DNS DS record object.
- record:dtclbdn : DTC LBDN object.
- record:host : DNS Host record object.
- record:host_ipv4addr : IPv4 Host address object.

- record:host_ipv6addr : IPv6 Host address object.
- record:https : DNS HTTPS record object.
- record:mx : DNS MX record object.
- record:naptr : DNS NAPTR record object.
- record:ns : DNS NS record object.
- record:nsec : DNS NSEC record object.
- record:nsec3 : DNS NSEC3 record object.
- record:nsec3param : DNS NSEC3 record object.
- record:ptr : DNS PTR record object.
- record:rpz:a : Response Policy Zone Substitute A Record Rule object.
- record:rpz:a:ipaddress : Response Policy Zone Substitute IPv4 Address Rule object.
- record:rpz:aaaa : Response Policy Zone Substitute AAAA Record Rule object.
- record:rpz:aaaa:ipaddress : Response Policy Zone Substitute IPv6 Address Rule object.
- record:rpz:cname : DNS Response Policy Zone CNAME record object.
- record:rpz:cname:clientipaddress : DNS RPZ CNAMEClientIpAddress record object.
- record:rpz:cname:clientipaddressdn : Substitute Domain Name Based on Client IP Address rule object.
- record:rpz:cname:ipaddress : DNS RPZ CNAMEIpAddress record object.
- record:rpz:cname:ipaddressdn : Substitute Domain Name Based on IP Address rule object.
- record:rpz:https : Response Policy Zone Substitute HTTPS Record Rule object.
- record:rpz:mx : Response Policy Zone Substitute MX Record Rule object.
- record:rpz:naptr : Response Policy Zone Substitute NAPTR Record Rule object.
- record:rpz:ptr : Response Policy Zone Substitute PTR Record Rule object.
- record:rpz:srv : Response Policy Zone Substitute SRV Record Rule object.
- record:rpz:svcb : Response Policy Zone Substitute SVCB Record Rule object.
- record:rpz:txt : Response Policy Zone Substitute TXT Record Rule object.
- record:rrsig : DNS RRSIG record object.
- record:srv : DNS SRV record object.
- record:svcb : DNS SVCB record object.
- record:tlsa : DNS TLSA record object.
- record:txt : DNS TXT record object.
- record:unknown : DNS UNKNOWN record object.
- recordnamepolicy : Record name policy object.
- request : WAPI handler object.
- restartservicestatus : Restart service status object.
- rir : Regional Internet Registry object.
- rir:organization : Regional Internet Registry organization

object.
- roaminghost : DHCP Roaming Host object.
- ruleset : DNS Ruleset object.
- saml:authservice : SAML authentication service object.
- scavengingtask : DNS scavenging task object.
- scheduledtask : Scheduled Task object.
- search : Search object.
- sharednetwork : DHCP Shared Network object.
- sharedrecord:a : DNS Shared A record object.
- sharedrecord:aaaa : DNS Shared AAAA record object.
- sharedrecord:cname : DNS Shared CNAME record object.
- sharedrecord:mx : DNS Shared MX record object.
- sharedrecord:srv : DNS Shared SRV record object.
- sharedrecord:txt : DNS Shared TXT record object.
- sharedrecordgroup : DNS Shared Record Group object.
- smartfolder:children : Smart Folder children object.
- smartfolder:global : Global Smart Folder object.
- smartfolder:personal : Personal Smart Folder object.
- snmpuser : SNMP user object.
- superhost : SuperHost object.
- superhostchild : Super Host Child object.
- syslog:endpoint : The syslog endpoint object.
- tacacsplus:authservice : The TACACS+ authentication service object.
- taxii : Taxii Member object.
- tftpfiledir : TFTP file or directory object.
- threatinsight:allowlist : Threat insight allowlist object.
- threatinsight:cloudclient : Threat Insight Cloud Client object.
- threatinsight:insight_allowlist : Threat insight allowlist object.
- threatinsight:moduleset : Threat insight module set object.
- threatprotection:grid:rule : Threat protection custom rule object.
- threatprotection:profile : The Threat Protection profile object.
- threatprotection:profile:rule : Threat Protection Profile Rule object.
- threatprotection:rule : Member Threat Protection Rule object.
- threatprotection:rulecategory : Threat protection rule category object.
- threatprotection:ruleset : The Grid threat protection ruleset object.
- threatprotection:ruletemplate : Threat protection rule template object.
- threatprotection:statistics : Threat protection statistics object.
- upgradegroup : Upgrade group object.
- upgradeschedule : Upgrade schedule object.
- upgradestatus : The upgrade status object.

- userprofile : User profile object.
- vdiscoverytask : Discovery task object.
- view : DNS View object.
- vlan : VLAN object.
- vlanrange : VLAN Range object.
- vlanview : VLAN View object.
- zone_auth : DNS Authoritative Zone object.
- zone_auth_discrepancy : Zone discrepancy information object.
- zone_delegated : DNS Delegated Zone object.
- zone_forward : DNS Forward Zone object.
- zone_rp : DNS Response Policy Zone object.
- zone_stub : DNS Stub Zone object.

Structs

- ad_auth_server : Active Directory Authentication Server.
- addressac : Address ac.
- admingroup:adminsetcommands : Set commands
- admingroup:adminshowcommands : Show commands.
- admingroup:admintoplevelcommands : Toplevel commands.
- admingroup:cloudsetcommands : Set commands.
- admingroup:cloudshowcommands : Show commands.
- admingroup:databasesetcommands : Set commands
- admingroup:databaseshowcommands : Show commands.
- admingroup:dhcpsetcommands : Set commands.
- admingroup:dhcpshowcommands : show commands.
- admingroup:dnssetcommands : Set commands.
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- admingroup:dockersetcommands : Set commands.
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- admingroup:gridsetcommands : Set commands.
- admingroup:gridshowcommands : Show commands.
- admingroup:licensingsetcommands : Set commands.
- admingroup:licensingshowcommands : Show commands.
- admingroup:lockoutsetting : lockout_setting
- admingroup:machinecontroltoplevelcommands : Toplevel commands.
- admingroup:networkingsetcommands : Set commands.
- admingroup:networkingshowcommands : Show commands.
- admingroup:passwordsetting : Password settings.
- admingroup:samlsetting : SAML settings.
- admingroup:securitysetcommands : Set commands.
- admingroup:securityshowcommands : Show commands.
- admingroup:troubleshootingtoplevelcommands : Toplevel commands.
- adsites : Microsoft Server AD Sites.

awsrte53recordinfo : ‘Aws Rte53 Record Info.
- awsrte53task : AWS Route53 task.
- awsrte53zoneinfo : ‘Aws Rte53 Zone Info.
- azurednstask : Azure DNS task.
- bgpas : BGP (Border Gateway Protocol) Autonomous System (AS)
- bgpneighbor : BGP (Border Gateway Protocol) Neighbor.
- capacityreport:objectcount : Type count struct.
- captiveportal:file : Captive portal file.
- changedobject : Changed object information.
- ciscoise:eaassociation : Cisco ISE extensible attribute association struct.
- ciscoise:publishsetting : Cisco ISE publish settings struct.
- ciscoise:subscribesetting : Cisco ISE subscribe settings struct.
- clientsubnetdomain : The client subnet domain structure.
- dhcpddns : Ddns Zone Primary.
- dhcpmember : Grid member serving DHCP.
- dhcpoption : DHCP option.
- dhcpserver : Microsoft Server DHCP Properties struct for MsServer Object
- discovery:advancedpollsetting : The advanced polling settings structure.
- discovery:advancedsdnpollsettings : The advanced SDN polling settings structure.
- discovery:advisorsetting : Advisor Settings structure.
- discovery:autoconversionsetting : This struct contains settings for automatic conversion
- discovery:basicpollsettings : Basic Poll Settings.
- discovery:basicsdnpollsettings : Basic SDN Poll Settings.
- discovery:clicredential : CLI credential.
- discovery:conversion_attributes : Discovery Data Conversion attributes.
- discovery:device:portstatistics : Port statistics.
- discovery:devicedatacollectionstatus : Device Data Collection Status struct.
- discovery:devicehint : This struct contains Device Hint.
- discovery:devicesupportinfo : Device Support Info struct.
- discovery:discoverydataconversionresult : Discovery Data Conversion result.
- discovery:ifaddrinfo : IfAddr information.
- discovery:jobprocessdetails : Discovery Job Process Details.
- discovery:networkdeprovisioninfo : Network Deprovision Info.
- discovery:networkinfo : Network info.
- discovery:port : The discovery port structure.
- discovery:port:config:adminstatus : Port Config Admin Status.
- discovery:port:config:description : Port Config Description.
- discovery:port:config:vlaninfo : Port Config VLAN info.

- discovery:port:control:info : Port Control info.
- discovery:port:control:taskdetails : Port Control Task Details.
- discovery:scaninterface : The discovery scan interface structure.
- discovery:sdnconfig : The SDN/SDWAN configuration structure.
- discovery:seedrouter : The seed router structure.
- discovery:snmp3credential : SNMP v3 Credential.
- discovery:snmpcredential : SNMP Credential.
- discovery:statusinfo : Status information.
- discovery:vlaninfo : VLAN information.
- discovery:vrfmappingrule : This struct contains VRF Mapping Rule.
- discoverydata : Discovered data.
- discoverytaskport : The network discovery TCP port.
- discoverytaskvserver : VMWare discovery server.
- dnsseckey : DNSSEC Key.
- dnsseckeyalgorithm : DNSSEC Key Algorithm.
- dnsseckeyparams : DNSSEC Key parameters.
- dnssectrustedkey : DNSSEC Trusted Key.
- dnsserver : Microsoft server DNS.
- dnstapsetting : DNSTAP Setting.
- dtc:health : Health information.
- dtc:monitor:snmp:oid : DTC SNMP Monitor OID.
- dtc:pool:consolidated_monitor_health : Consolidated monitor health structure.
- dtc:pool:link : DTC Pool link.
- dtc:query:result : Query records.
- dtc:server:link : DTC Server link.
- dtc:server:monitor : DTC Server Monitor.
- dtc:topology:rule:destination : DTC topology rule destination.
- dtc:topology:rule:source : DTC topology rule source.
- dxl:endpoint:broker : The Data Exchange Layer endpoint broker structure.
- eaexpressionop : Extensible attribute expression operand.
- exclusionrange : Exclusion range.
- exclusionrangetemplate : Exclusion range template.
- expressionop : Expression operand.
- extensibleattributedef:descendants : Descendants.
- extensibleattributedef:listvalues : List of values.
- extserver : External Server.
- extsyslogbackupserver : External syslog backup server.
- federatedrealm : Federated Realms
- filetransfersetting : File Transfer Setting.
- filterrule : Filter rule.
- fireeye:alertmap : FireEye Alert Map.
- fireeye:rulemapping : Fireeye Rule Mapping.
- forwardingmemberserver : Forwarding Member Server.
- gcpdnstask : Gcp DNS task.

- gmcgroup:member : gmcgroup member structure
- grid:attackdetect : DNS attack detection settings.
- grid:attackmitigation : DNS Attack Mitigation object.
- grid:autoblackhole : DNS Auto Blackhole settings.
- grid:certverificationresult : Openssl verification result for one certificate.
- grid:cloudapi:gateway:config : Gateway config.
- grid:cloudapi:gateway:endpointmapping : Endpoint mapping.
- grid:cloudapi:info : Cloud Information.
- grid:cloudapi:user : Cloud user.
- grid:consentbannersetting : Consent banner setting.
- grid:cspapiconfig : Csp Api config.
- grid:cspgridsetting : CSP Grid setting
- grid:dns:fixedrrsetorderfqdn : Fixed RRset order FQDN.
- grid:informationalbannersetting : Informational level banner setting.
- grid:licensesubpool : License sub-pool settings.
- grid:lockoutsetting : Lockout Security Setting
- grid:loggingcategories : Grid logging setting information.
- grid:ntp : The Grid Network Time Protocol (NTP) settings structure.
- grid:responseratelimiting : DNS Response Rate Limiting.
- grid:restartbannersetting : Restart Banner Setting.
- grid:servicerestart : Restart Setting.
- grid:servicerestart:group:schedule : Restart Group Schedule.
- gridmember_soamname : Per-master SOA MNAME Information.
- gridmember_soaserial : Per-master SOA Serial Information.
- hotfix : Upgrade process hotfix.
- hsm:entrustnshield : Entrust nShield Hardware Security Module.
- hsm:safenet : SafeNet Hardware Security Module.
- hsm:thales : Thales Hardware Security Module.
- hsm:thalesluna : Thales Luna Hardware Security Module.
- interface : IPv6/IPv4 interfaces settings.
- ipv6networksetting : IPv6 Network Settings.
- ipv6setting : IPv6 Settings.
- lan2portsetting : LAN2 Port Setting.
- lanhaportsetting : LAN/HA Port Settings.
- ldap_eamapping : The LDAP extensible attribute mapping.
- ldap_server : The LDAP server structure.
- logicfilterrule : Logic Filter rule.
- lomnetworkconfig : The LOM network configuration structure.
- lomuser : The Lights Out Management (LOM) user.
- member:cspmembersetting : CSP Member setting
- member:dnsgluerecordaddr : ‘Member DNS glue record address.

- member:dnsip : Member DNS additional IP structure.
- member:ntp : The member Network Time Protocol (NTP) settings structure.
- member:pnodetoken : Physical Node Token.
- memberserver : Member Server.
- memberservicecommunication : Member Service Communication.
- memberservicestatus : Member Service Status.
- mgmtportsetting : MGMT Port Setting.
- monitoreddomains : Monitored domains.
- msdhcpoption : Microsoft DHCP Options.
- msdhcpserver : MS DHCP server.
- msdnsserver : Msserver Server.
- msserver:aduser : Microsoft Server AD user.
- msserver:aduser:data : Active Directory User Data.
- msserver:dcnsrecordcreation : An Infoblox Active Directory Domain Controller object.
- natsetting : NAT Settings.
- networkview:assocmember : Network View Associated Members structure.
- nodeinfo : Node Info.
- notification:rest:templateinstance : Notification REST template instance.
- notification:rest:templateparameter : Notification REST template parameter.
- notification:ruleexpressionop : Notification rule expression operand.
- ntpac : The Network Time Protocol (NTP) access control item structure.
- ntpaccess : The Network Time Protocol (NTP) access control setting.
- ntpkey : The Network Time Protocol (NTP) authentication key structure.
- ntpserver : The Network Time Protocol (NTP) server structure.
- nxdomainrule : Rule of Ruleset.
- objectschangestrackingsetting : Objects changes tracking setting.
- ocsp_responder : OCSP Responder.
- option60matchrule : Option 60 Match Rule.
- ospf : OSPF Settings.
- outbound:cloudclient:event : Outbound cloudclient event type
- parentalcontrol:abs : Parental control additional blocking server(ABS).
- parentalcontrol:msp : Parental control managed service provider (MSP) service.
- parentalcontrol:nasgateway : NAS gateway mobile security settings.
- parentalcontrol:siteapimember : Site member parental control settings.
- parentalcontrol:sitemember : Site member parental

control settings.
- parentalcontrol:spm : Parental control policy management service (SPM).
- physicalportsetting : Physical Port Settings.
- preprovision : Pre-provisioning Settings.
- preprovisionhardware : Pre-provisioning Hardware Settings.
- properties:blackoutsetting : Blackout Setting.
- queriesuser : Queries user.
- radius:server : The RADIUS authentication server structure.
- rdatasubfield : Unknown Record Rdata subfield value.
- remoteddnszone : Remote DDNS Zone structure.
- rrpreconditioninstructions : Structure for DNS RR pre-condition instructions.
- saml:idp : The SAML Identity Provider structure.
- scheduledbackup : Scheduled backup settings.
- servicestatus : Node Service Status.
- setting:atpoutbound : Outbound settings for ATP events
- setting:automatedtrafficcapture : Automated Traffic Capture.
- setting:dnsresolver : DNS resolver Setting.
- setting:dynamicratio : Dynamic Ratio Setting for DTC Pool.
- setting:email : The email settings for the Grid member.
- setting:httpproxyserver : HTTP Proxy Server Setting.
- setting:inactivelockout : Inactivity Lockout settings.
- setting:ipam:threshold : IPAM Threshold Settings.
- setting:ipam:trap : IPAM Trap Settings.
- setting:msserver : Microsoft server settings structure.
- setting:network : Network settings.
- setting:password : Password settings.
- setting:scavenging : DNS scavenging settings.
- setting:schedule : Schedule Setting.
- setting:security : Security settings.
- setting:securitybanner : Security banner settings.
- setting:snmp : SNMP setting.
- setting:syslogproxy : Syslog proxy settings.
- setting:trafficcapturechr : Grid level Traffic capture chr setting.
- setting:trafficcaptureqps : Grid level traffic capture QPS setting.
- setting:triggerrecdnslatency : Grid level settings for traffic capture based on recursive
- setting:triggerrecqueries : Grid level settings for traffic capture based on recursive
- setting:triggeruthdnslatency : Member level settings for traffic based on authoritative DNS
- setting:viewaddress : Notify and query source settings.
- smartfolder:groupby : Smart Folder group by structure.
- smartfolder:groupbyvalue : Smart Folder group by value structure.

- smartfolder:queryitem : Smart Folder query item structure.
- smartfolder:queryitemvalue : Smart Folder query item value structure.
- sortlist : DNS Sortlist.
- ssh_key : ‘List of ssh keys for a particular user.
- subjectalternativename : Subject alternative name structure.
- svcparams : Svc Params structure.
- syslog:endpoint:servers : Syslog server structure
- syslogserver : Syslog server.
- tacacsplus:server : The TACACS+ server structure.
- taxii:rpzconfig : Taxii Member RPZ Configuration.
- threatprotection:natport : NAT Threat Protection Port.
- threatprotection:natrule : NAT Threat Protection Rule.
- threatprotection:ruleconfig : Threat protection rule configuration.
- threatprotection:ruleparam : Threat protection rule parameter.
- threatprotection:statinfo : Threat protection statistical information.
- thresholdtrap : The Grid SNMP threshold trap structure.
- trapnotification : The Grid SNMP trap notification structure.
- trapreceiver : Trap receiver.
- tsigac : TSIG ac.
- updatesdownloadmemberconfig : Updates Download Member Configuration.
- upgradegroup:member : Upgrade group member structure.
- upgradegroup:schedule : Upgrade schedule group structure.
- upgradestep : Upgrade process step.
- vlanlink : VLAN link.
- vtftpdirmember : Virtual TFTP directory member.
- zoneassociation : Zone association.
- zoneassociations : Zone associations.
- zonenameserver : Zone Name Server.
- zonerolloverinfo : The zone rollover information structure.

Additional Information and Examples

- Infoblox Developer community
- Examples accessing WAPI using Curl
- Examples using object body requests
- Valid values for extensible attributes
- Extensible attributes inheritance
- Extensible attributes search
- Extensible attributes update
- Glossary
- Object restrictions

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(record:ptr.discovered_data field)
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(in struct discoverydata)
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(ipv6fixedaddress.discovered_data field)
(lease.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
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(in struct discoverydata)
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(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
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(record:ptr.discovered_data field)
vmhost_mac_address (fixedaddress.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
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(in object ipv6network)
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(in object networkcontainer)
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(in object range)
(in object record:a)
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ms_primaries (in object zone_auth)
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(record:ptr.discovered_data field)
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(lease.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
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vmhost_subnet_cidr (fixedaddress.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
vmi_id (fixedaddress.discovered_data field)
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(ipv6fixedaddress.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
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vmi_ip_type (fixedaddress.discovered_data field)
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(ipv6fixedaddress.discovered_data field)
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(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
vmi_is_public_address (fixedaddress.discovered_data field)
(in struct discoverydata)
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(in object discovery:deviceneighbor)
(in object discovery:devicesupportbundle)
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(in object discovery:vrf)
(lease.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
vmi_name (fixedaddress.discovered_data field)
(in struct discoverydata)
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(ipv6fixedaddress.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
vmi_private_address (fixedaddress.discovered_data field)
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(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
vmi_tenant_id (fixedaddress.discovered_data field)
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(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)
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(in object dtc:monitor:tcp)
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(in object dxl:endpoint)
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(in object federatedrealms)
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(in object filtermac)
(in object filternac)
(in object filteroption)
(in object filterrelayagent)
(in object fingerprint)
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(in object fixedaddresstemplate)
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(in object gmcgroup)
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(in object grid:cloudapi:vm)
(in object grid:filedistribution)
(in object grid:member:cloudapi)
(in object grid:servicerestart:group)
(in object grid:threatinsight)
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(in object hsm:safenetgroup)
(in object hsm:thalesgroup)
(in object hsm:thaleslunagroup)
(in object ipv6dhcpoptiondefinition)
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(in object ipv6filteroption)
(in object ipv6fixedaddress)
(in object ipv6fixedaddresstemplate)
(in object ipv6networktemplate)
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(in object msserver:adsites:domain)
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(in object namedacl)
(in object natgroup)
(in object networktemplate)
(in object networkuser)
(in object networkview)
(in object notification:rest:endpoint)
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(in object nsgroup)
(in object nsgroup:delegation)
(in object nsgroup:forwardingmember)
(in object nsgroup:forwardstubserver)
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(in object parentalcontrol:avp)
(in object parentalcontrol:blockingpolicy)
(ipv6fixedaddress.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_conf_speed (fixedaddress.discovered_data field)
(in struct discoverydata)
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(ipv6fixedaddress.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_link_status (fixedaddress.discovered_data field)
(in struct discoverydata)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_mac_address (fixedaddress.discovered_data field)
(in struct discoverydata)
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(ipv6fixedaddress.discovered_data field)
(lease.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_mode (fixedaddress.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_name (fixedaddress.discovered_data field)
(in struct discoverydata)
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(in object parentalcontrol:subscribersite)
(in object pxgrid:endpoint)
(in object radius:authservice)
(in object range)
(in object rangetemplate)
(in object record:a)
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(in object record:alias)
(in object record:caa)
(in object record:cname)
(in object record:dhcid)
(in object record:dname)
(in object record:dnskey)
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(in object record:dtclbdn)
(in object record:host)
(in object record:https)
(in object record:mx)
(in object record:naptr)
(in object record:ns)
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(in object record:rpz:a:ipaddress)
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(in object record:rpz:svcb)
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(in object record:svcb)
(in object record:tlsa)
(in object record:txt)
(in object record:unknown)
(in object recordnamepolicy)
(in object rir)
(in object rir:organization)
(in object roaminghost)
(in object ruleset)
(in object saml:authservice)
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(in object sharedrecord:a)
(in object sharedrecord:aaaa)
(in object sharedrecord:cname)
(in object sharedrecord:mx)
(in object sharedrecord:srv)
(in object sharedrecord:txt)
(in object sharedrecordgroup)
(in object smartfolder:global)
(in object smartfolder:personal)
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(in object superhost)
(in object superhostchild)
(in object syslog:endpoint)
(in object tacacsplus:authservice)
(in object taxii)
(in object tftpfiledir)
(lease.discovered_data field)
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(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vport_speed (fixedaddress.discovered_data field)
(in struct discoverydata)
(ipv4address.discovered_data field)
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(ipv6fixedaddress.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vrf_description (fixedaddress.discovered_data field)
(in object discovery:deviceinterface)
(in struct discoverydata)
(ipv4address.discovered_data field)
(ipv6address.discovered_data field)
(ipv6fixedaddress.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vrf_mapping_policy (in object discovery:gridproperties)

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vrf_name (fixedaddress.discovered_data field)
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(in struct discoverydata)
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(ipv6fixedaddress.discovered_data field)
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(record:a.discovered_data field)
(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

vrf_rd (fixedaddress.discovered_data field)
(in object discovery:deviceinterface)
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(ipv6fixedaddress.discovered_data field)
(lease.discovered_data field)
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(record:aaaa.discovered_data field)
(record:host_ipv4addr.discovered_data field)
(record:host_ipv6addr.discovered_data field)
(record:ptr.discovered_data field)

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admingroup : Admin Group object.

ad_auth_service : Active Directory Authentication Service object.

This object allows you to specify an Active Directory (AD) authentication method and the AD authentication servers that Infoblox uses to authenticate administrators.

Object Reference

References to ad_auth_service are object references. The *name* part of the Active Directory Authentication Service object reference has the following components:

- The name of the Active Directory authentication service.

Example:

```
# Using _ref
ad_auth_service/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID
ad_auth_service/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
ad_domain	
domain_controllers	

name

timeout

ad_domain

`ad_domain`

The Active Directory domain to which this server belongs.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

comment

`comment`

The descriptive comment for the AD authentication service.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disabled

`disabled`

Determines if Active Directory Authentication Service is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

domain_controllers

`domain_controllers`

The AD authentication server list.

Type

A/An Active Directory Authentication Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The AD authentication service name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

nested_group_querying

`nested_group_querying`

Determines whether the nested group querying is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

timeout

`timeout`

The number of seconds that the appliance waits for a response from the AD server.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
ad_domain	String	Y	N	N	: = ~
comment	String	N	N	N	: = ~
disabled	Bool	N	N	N	N/A
domain_controllers	[struct]	Y	N	N	N/A
name	String	Y	N	Y	: = ~
nested_group_querying	Bool	N	N	N	N/A
timeout	Unsigned int	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Examples using object body requests

Examples accessing WAPI using Curl

The following sections demonstrate how to interact with WAPI through **curl** (see http://curl.haxx.se/ for more information). This sample code shows you how to create an object, modify it, search for it, and delete it. The sample code uses the network object and assumes that no other networks exist on the appliance.

Use **-k1** in curl to allow connections even if the appliance SSL certificate is not signed by a recognized SSL authority and to force TLS negotiation. If you want to capture the actual traffic, use the –trace or –trace-ascii options to invoke curl.

These tests assume that the appliance ip is 192.168.1.2, and that you have a valid user name of ‘admin’ and a password of ‘testpw’.

**** at the end of the line means the line was wrapped for documentation purposes but should be joined with the previous line(s) when entering the command in your shell.

Note that some shells can interact with quote characters inside the requests. In case of a failure, consider using the curl **-v** and **–trace-ascii** options to inspect what has been sent to the server to ensure that your shell did not affect the requested data.

Standard sample code

Create a network

To create networks, use a POST request:

```
curl -k1 -u admin:testpw -X POST
https://192.168.1.2/wapi/v2.14/network \
    -d network=10.1.0.0/16
```

The server returns a reference of the created network:

```
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16
```

To create another network, send another POST request:

```
curl -k1 -u admin:testpw -X POST
https://192.168.1.2/wapi/v2.14/network \
```

```
    -d network=10.2.0.0/16
```

Read a network

To verify that both networks have been created, send a GET request:

```
curl -k1 -u admin:testpw -X GET
https://192.168.1.2/wapi/v2.14/network
```

The server returns a list with both networks:

```
[
    {
        "_ref":
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16

        "network": "10.1.0.0/16",
        "network_view": "default"
    },
    {
        "_ref":
"network/ZG5zLm5ldHdvcmskMTAuMi4wLjAvMTYvMA:10.2.0.0%2F16

        "network": "10.2.0.0/16",
        "network_view": "default"
    }
]
```

Note that the returned references could be different in your installation. The sample code uses references returned in the above example. Depending on your installation, make sure that you use the references your server returns.

Modify a network

To modify a network, send a PUT request. Send the following to modify its comment:

```
curl -k1 -u admin:testpw -X PUT \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskMT

    10.1.0.0%2F16 -d comment='Sample comment'
```

The server still returns the network reference. Note that this could be different from before:

```
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16
```

Check that the network was modified, since comment is not a field that is returned by default add _return_fields to the GET

request:

```
curl -k1 -u admin:testpw -X GET
https://192.168.1.2/wapi/v2.14/network \
    -d _return_fields=network,network_view,comment
```

Note that the 10.1.0.0/16 network has been modified:

```
[
    {
        "_ref":
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16

        "comment": "Sample comment",
        "network": "10.1.0.0/16",
        "network_view": "default"
    },
    {
        "_ref":
"network/ZG5zLm5ldHdvcmskMTAuMi4wLjAvMTYvMA:10.2.0.0%2F16

        "network": "10.2.0.0/16",
        "network_view": "default"
    }
]
```

Search for a network

To find networks with comments that contain the word sample in a case-insensitive way:

```
curl -k1 -u admin:testpw -X GET
https://192.168.1.2/wapi/v2.14/network \
    -d comment~:=sample
```

The server returns the network we just modified:

```
[
    {
        "_ref":
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16

        "comment": "Sample comment",
        "network": "10.1.0.0/16",
        "network_view": "default"
    }
]
```

If there is no match, the server returns an empty list:

```
curl -k1 -u admin:testpw -X GET
https://192.168.1.2/wapi/v2.14/network \
    -d comment~:=nomatch
```

The server returns the following:

```
[]
```

Delete a network

To delete a network, send a DELETE request using a reference you have retrieved by searching. For example, to delete the networks we created above, send the following:

```
curl -k1 -u admin:testpw -X DELETE \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskMT

    10.1.0.0%2F16
```

The server returns the reference of the object it just deleted, if the deletion was successful:

```
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16
```

To delete the other network, send the following:

```
curl -k1 -u admin:testpw -X DELETE \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskMT

    10.2.0.0%2F16
```

Note that both networks have been removed:

```
curl -k1 -u admin:testpw -X GET
https://192.168.1.2/wapi/v2.14/network
```

The server returns the following:

```
[]
```

Create a host record

To create a host record in a specified zone, first send the following request to create the zone:

```
curl -k1 -u admin:testpw -H "Content-Type:
application/json" \
-X POST https://192.168.1.2/wapi/v2.14/zone_auth \
-d '{"fqdn": "zone.com"}'
```

Then send the following request to create the host:

```
curl -k1 -u admin:testpw -H "Content-Type:
application/json" \
-X POST https://192.168.1.2/wapi/v2.14/record:host -d \
```

```
'{"ipv4addrs":
[{"ipv4addr":"10.222.0.12"}],"name":"host.zone.com"}'
```

Note that it might be necessary to specify the content type explicitly when using the -d option in curl.

Schedule an object creation.

To schedule an object creation, use a POST request with the _schedinfo.scheduled_time parameter:

```
curl -k1 -u admin:testpw -X POST
https://192.168.1.2/wapi/v2.14/network \
    -d network=10.1.0.0/16 -d
_schedinfo.scheduled_time=1367752903
```

The server returns a reference of the created scheduled task:

```
"scheduledtask/b25lLnF1ZXVlZF90YXNrJDY:6/PENDING"
```

Execute a function call.

To execute a function call, use a POST request with the _function parameter. For example, first create a network:

```
curl -k1 -u admin:testpw -X POST
https://192.168.1.2/wapi/v2.14/network \
    -d network=10.1.0.0/16
```

the server will then return a reference to the network that was just created:

```
"network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/d
```

now use this reference to retrieve the next three available /24 networks in this network excluding 10.1.1.0/24 and 10.1.3.0/24:

```
curl -k1 -u admin:testpw -X POST \
https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskMT

/16/default?_function=next_available_network -H
"Content-Type: application/json" \
-d '{"exclude": ["10.1.1.0/24", "10.1.3.0/24"], "cidr":
24, "num": 3}'
```

The server returns a list of available networks with the above constraints:

```
{
    "networks": [
            "10.1.0.0/24",
            "10.1.2.0/24",
```

```
            "10.1.4.0/24"
        ]
}
```

Uploading a file to the appliance

To upload a file to the appliance, first tell the appliance so:

```
curl -k1 -u admin:testpw -X POST \
'https://192.168.1.2/wapi/v2.14/fileop?
_function=uploadinit'
```

The appliance will return the URL and a token value:

```
{
    "token": "eJydkMFOwzAMhu9+k.....",
    "url": "https://192.168.1.2/...."
}
```

The file can then be uploaded to the specified URL:

```
curl -k1 -u admin:testpw -F name=somefile.txt -F
filedata=@somefile.txt \
'https://192.168.1.2/...'
```

Finally, we need to signal to the appliance that the upload has been completed and that it needs to perform the requested action on the uploaded file. In this example, we will use setfiledest:

```
curl -k1 -u admin:testpw -X POST \
'https://192.168.1.2/wapi/v2.14/fileop?
_function=setfiledest' \
-H "Content-Type: application/json" \
-d '{ "dest_path": "/somefile.txt", "type": "TFTP_FILE",
'
 '"token": "eJydkMFOwzAMhu9+k..." }'
```

Downloading a file from the appliance

To download a file from the appliance, first select what to download. In this example, we will download a backup:

```
curl -k1 -u admin:testpw -X POST \
'https://192.168.1.2/wapi/v2.14/fileop?
_function=getgriddata' \
-H "Content-Type: application/json" -d '{"type":
"BACKUP"}'
```

The appliance will return a token and a URL from which the file should be downloaded:

```
{
    "token": "eJydUMtuwyAQvO....",
    "url": "https://192.168.1.2/...."
}
```

We can then download the file:

```
curl -k1 -u admin:testpw -H "Content-
type:application/force-download" -O \
"https://192.168.1.2/...."
```

After the download has been completed, we can signal to the appliance that the operation is done by calling downloadcomplete and passing the token we have retrieved in the first step:

```
curl -k1 -u admin:testpw -X POST \
'https://192.168.1.2/wapi/v2.14/fileop?
_function=downloadcomplete' \
-H "Content-Type: application/json" -d '{ "token":
"eJydUMtuwyAQvO+....."}'
```

Executing a paging request

First insert a zone and some A records:

```
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/zone_auth \
-d fqdn=test1.com
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/network \
-d network=10.1.0.0/16
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/record:a \
-d ipv4addr=10.1.0.1 -d name=a1.test1.com
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/record:a \
-d ipv4addr=10.1.0.2 -d name=a2.test1.com
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/record:a \
-d ipv4addr=10.1.0.3 -d name=a3.test1.com
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/record:a \
-d ipv4addr=10.1.0.4 -d name=a4.test1.com
curl -k1 -u admin:testpw -X POST
https://127.0.0.1/wapi/v2.14/record:a \
-d ipv4addr=10.1.0.5 -d name=a5.test1.com
```

Then check that all records have been inserted correctly:

```
curl -k1 -u admin:testpw -X GET \
'https://127.0.0.1/wapi/v2.14/record:a?
name~=test1.com&_return_fields=name'
[
    {
        "_ref":
"record:a/ZG5zLmJpbmRfYSQuXY29tLn3DEwLjEuMC4x:a1.test1.co

        "name": "a1.test1.com"
    },
    {
        "_ref":
"record:a/ZG5zLmJpbmRLnRlc3QxLGE1LDEwLjEuMC41:a5.test1.co

        "name": "a5.test1.com"
    },
    {
```

```
        "_ref":
"record:a/ZG5zLmJpbmRfYSQc3QxLGE0LDEwLjEuMC40:a4.test1.co

        "name": "a4.test1.com"
    },
    {
        "_ref":
"record:a/ZG5zLmuY29tLnRlc3QxLGEzLDEwLjEuMC4z:a3.test1.co

        "name": "a3.test1.com"
    },
    {
        "_ref":
"record:a/ZG5zLmJpbmRfYSQuX2RLGEyLDEwLjEuMC4y:a2.test1.co

        "name": "a2.test1.com"
    }
]
```

Now request two records at a time:

```
curl -k1 -u admin:testpw -X GET \
'https://127.0.0.1/wapi/v2.14/record:a?\
name~=test1.com&_return_fields=name&_paging=1&_max_result

{
    "next_page_id": "789c5590...4efc1732",
    "result": [
        {
            "_ref":
"record:a/ZG5zLmJpbmRfYSQuXY29tLn3DEwLjEuMC4x:a1.test1.co

            "name": "a1.test1.com"
        },
        {
            "_ref":
"record:a/ZG5zLmJpbmRLnRlc3QxLGE1LDEwLjEuMC41:a5.test1.co

            "name": "a5.test1.com"
        }
    ]
}
```

The server has returned the first page of results and a next_page_id to be used for the next page request. Note that the actual next_page_id will not contain periods (.). The periods are used here to shorten the actual ID:

```
curl -k1 -u admin:testpw -X GET \
'https://127.0.0.1/wapi/v2.14/record:a?
_page_id=789c5590...4efc1732'
{
    "next_page_id": "789c5590...3e113c3d4d",
    "result": [
        {
            "_ref":
"record:a/ZG5zLmJpbmRfYSQc3QxLGE0LDEwLjEuMC40:a4.test1.co

            "name": "a4.test1.com"
        },
        {
            "_ref":
"record:a/ZG5zLmuY29tLnRlc3QxLGEzLDEwLjEuMC4z:a3.test1.co
```

```
            "name": "a3.test1.com"
        }
    ]
}
```

Let’s now fetch the last page of results using the page_id that was just returned:

```
curl -k1 -u admin:testpw -X GET \
'https://127.0.0.1/wapi/v2.14/record:a?
_page_id=789c5590...3e113c3d4d'
{
    "result": [
        {
            "_ref":
"record:a/ZG5zLmJpbmRfYSQuX2RLGEyLDEwLjEuMC4y:a2.test1.co

            "name": "a2.test1.com"
        }
    ]
}
```

Note that the server has not returned a next_page_id because this was the last page of results.

XML Sample code

Create a network

To create networks, use a POST request:

```
curl -k1 -u admin:testpw -X POST -HContent-Type:text/xml
--data-binary \
    '<value type="object"><network>10.1.0.0/16</network>
</value>' \
    https://192.168.1.2/wapi/v2.14/network?
_return_type=xml-pretty
```

The server returns a reference of the created network:

```
<?xml version="1.0"?>
<value>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16</
```

To create another network, send another POST request:

```
curl -k1 -u admin:testpw -X POST -HAccept:text/xml -
HContent-Type:text/xml \
    --data-binary '<value type="object">
<network>10.2.0.0/16</network></value>' \
    https://192.168.1.2/wapi/v2.14/network?
_return_type=xml-pretty
```

Read a network

To verify that both networks have been created, send a GET request:

```
curl -k1 -u admin:testpw -X GET \
https://192.168.1.2/wapi/v2.14/network?_return_type=xml-
pretty
```

The server returns a list with both networks:

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <network_view>default</network_view>

<_ref>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16</_

    <network>10.1.0.0/16</network>
  </value>
  <value type="object">
    <network_view>default</network_view>

<_ref>network/ZG5zLm5ldHduMi4wLjAvMTYvMA:10.2.0.0%2F16</_

    <network>10.2.0.0/16</network>
  </value>
</list>
```

Note that the returned references could be different in your installation. The sample code uses references returned in the above example. Depending on your installation, make sure that you use the references your server returns.

Modify a network

To modify a network, send a PUT request. Send the following to modify its comment:

```
curl -k1 -u admin:testpw -X PUT -HAccept:text/xml -
HContent-Type:text/xml \
    --data-binary '<value type="object"><comment>Sample
comment</comment></value>' \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvMS4wLj
\
    _return_type=xml-pretty
```

The server still returns the network reference. Note that this could be different from before:

```
<?xml version="1.0"?>
<value>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16</
```

Check that the network was modified, since comment is not a field that is returned by default add _return_fields to the GET request:

```
curl -k1 -u admin:testpw -X GET -HAccept:text/xml \
    https://192.168.1.2/wapi/v2.14/network \
    -d _return_fields=network,network_view,comment -d
_return_type=xml-pretty
```

Note that the 10.1.0.0/16 network has been modified:

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <comment>Sample comment</comment>
    <network_view>default</network_view>

<_ref>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16</_

    <network>10.1.0.0/16</network>
  </value>
  <value type="object">
    <network_view>default</network_view>

<_ref>network/ZG5zLm5ldHduMi4wLjAvMTYvMA:10.2.0.0%2F16</_

    <network>10.2.0.0/16</network>
  </value>
</list>
```

Search for a network

To find networks with comments that contain the word sample in a case-insensitive way:

```
curl -k1 -u admin:testpw -X GET -HAccept:text/xml \
    https://192.168.1.2/wapi/v2.14/network -d
comment~:=sample \
    -d _return_type=xml-pretty
```

The server returns the network we just modified:

```
<?xml version="1.0"?>
<list>
  <value type="object">
    <comment>Sample comment</comment>
    <network_view>default</network_view>

<_ref>network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0

    <network>10.1.0.0/16</network>
  </value>
</list>
```

If there is no match, the server returns an empty list:

```
curl -k1 -u admin:testpw -X GET -HAccept:text/xml \
```

```
    https://192.168.1.2/wapi/v2.14/network -d
comment~:=nomatch \
    -d _return_type=xml-pretty
```

The server returns the following:

```
<?xml version="1.0"?>
<list>
</list>
```

Delete a network

To delete a network, send a DELETE request using a reference you have retrieved by searching. For example, to delete the networks we created above, send the following:

```
curl -k1 -u admin:testpw -X DELETE -HAccept:text/xml \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskML
 \
    -d _return_type=xml-pretty
```

The server returns the reference of the object it just deleted, if the deletion was successful:

```
<?xml version="1.0"?>
<value>network/ZG5zLm5ldHdvcmskMLjAvMTYvMA:10.1.0.0%2F16<
```

To delete the other network, send the following:

```
curl -k1 -u admin:testpw -X DELETE -HAccept:text/xml \

https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdAuMi4wL
 \
    -d _return_type=xml-pretty
```

Note that both networks have been removed:

```
curl -k1 -u admin:testpw -X GET -HAccept:text/xml \
    https://192.168.1.2/wapi/v2.14/network -d
_return_type=xml-pretty
```

The server returns the following:

```
<?xml version="1.0"?>
<list>
</list>
```

Create a host record

To create a host record in a specified zone, first send the

following request to create the zone:

```
curl -k1 -u admin:testpw -H "Content-Type:
application/xml" -X POST \
https://192.168.1.2/wapi/v2.14/zone_auth -d \
'<?xml version="1.0"?><value type="object">
<fqdn>zone.com</fqdn></value>'
```

Then send the following request to create the host:

```
curl -k1 -u admin:testpw -H "Content-Type:
application/xml" -X POST \
https://192.168.1.2/wapi/v2.14/record:host -d \
'<?xml version="1.0"?><value type="object">
<name>host.zone.com</name>'\
'<ipv4addrs><list><value type="object">
<ipv4addr>10.222.0.12</ipv4addr>'\
'</value></list></ipv4addrs></value>'
```

Note that it might be necessary to specify the content type explicitly when using the -d option in curl.

Schedule an object creation.

To schedule an object creation, use a POST request with the _schedinfo.scheduled_time parameter:

```
curl -k1 -u admin:testpw -X POST -HContent-Type:text/xml
--data-binary \
    '<value type="object"><network>10.1.0.0/16</network>
</value>' \
    'https://192.168.1.2/wapi/v2.14/network'\
    '?_return_type=xml-
pretty&_schedinfo.scheduled_time=1367752903'
```

The server returns a reference of the created scheduled task:

```
<?xml version="1.0"?>
<value>scheduledtask/b25lLnF1ZXVlZF90YXNrJDA:0/PENDING</v
```

Execute a function call.

To execute a function call, use a POST request with the _function parameter. For example, first create a network:

```
curl -k1 -u admin:testpw -X POST -HContent-Type:text/xml
--data-binary \
    '<value type="object"><network>10.2.0.0/16</network>
</value>' \
    https://192.168.1.2/wapi/v2.14/network?
_return_type=xml-pretty
```

the server will then return a reference to the network that was just created:

```
<?xml version="1.0"?>
<value>network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.
```

now use this reference to retrieve the next three available /24 networks in this network excluding 10.1.1.0/24 and 10.1.3.0/24:

```
curl -k1 -u admin:testpw -X POST -HContent-Type:text/xml
--data-binary \
'<value type="object"><exclude><list>
<value>10.1.1.0/24</value>'\
'<value>10.1.3.0/24</value></list></exclude><cidr
type="int">24</cidr>'\
'<num type="int">3</num></value>' \
'https://192.168.1.2/wapi/v2.14/network/ZG5zLm5ldHdvcmskM

'10.1.0.0/16/default?
_function=next_available_network&_return_type=xml-
pretty'
```

The server returns a list of available networks with the above constraints:

```
<?xml version="1.0"?>
<value type="object">
<networks>  <list>
    <value>10.1.0.0/24</value>
    <value>10.1.2.0/24</value>
    <value>10.1.4.0/24</value>
  </list>
</networks></value>
```

Certificate Based Authentication

This section includes examples for configuring certificate based authentication. To simplify the examples, self-signed certificate is generated for client certificate signing.

Generate self-signed CA certificate

Generate a self-signed certificate and use it as a Certificate Authority (CA) certificate that is treated as a trusted source for signing client certificates `*`. To do so, run the openssl **req** command with the *-x509* argument.

To generate a private key alongside with a certificate, run the *-newkey* command with the argument that tells openssl that you need a RSA private key of length 4096. The *-nodes* (literally “No-DES”) parameter is used to skip passphrase private key protection, as follows:

```
openssl req -x509 -newkey rsa:4096 -nodes -keyout
ca.key.pem \
-out ca.cert.pem -days 365 -subj '/CN=ib-root-ca'
```

`*` - however in a real world using real Certificate Authorities is preferred.

Output:

```
Generating a 4096 bit RSA private key
.....................................................
.....................................................
writing new private key to 'ca.key.pem'
-----
```

Generate Certificate Signing Request (CSR) for a client certificate

The first step in acquiring client certificate is to create a Certificate Signing Request (CSR) that is signed by the Certificate Authority. To generate a CSR, run the openssl **req** command with the *-new* argument. Same as for the CA certificate, a client private key is generated using the *-newkey* option without passphrase protection (*-nodes*). The CSR validity period is determined by the *-days* argument and is equal to 365 days. Note that the Canonical Name (CN) in the subject should contain the desired user name, as follows:

```
openssl req -new -sha256 -newkey rsa:4096 -nodes \
-keyout client.key.pem -days 365 -out client.req.pem \
-subj '/CN=ib-employee'
```

Output:

```
Generating a 4096 bit RSA private key
.....................................................
.....................................................
.................++
writing new private key to 'client.key.pem'
-----
```

Sign the client certificate with CA certificate

The last step in generating the client certificate is the CSR signing by CA. (In this example, we are using a previously generated CA certificate). To sign the CSR by a CA, run the openssl **x509** command with the *-req* argument and pass the client CSR (client.req.pem), CA Certificate (ca.cert.pem), CA private key (ca.key.pem) and an arbitrary serial number (1209199). To include SAN (Subject Alternative Name) e-mail address use *-extfile* argument (or explicit configuration file) with *subjectAltName* set to a desired e-mail address, as follows:

```
openssl x509 -req -days 365 \
-extfile <(printf
"subjectAltName=email:employee@infoblox.com") \
-in client.req.pem -CA ca.cert.pem -CAkey ca.key.pem
-set_serial 1209199 \
-out client.cert.pem
```

Output:

```
Signature ok
subject=/CN=ib-employee
Getting CA Private Key
```

Upload CA Certificate

To upload the CA certificate, you first initialize the data upload procedure. To initialize the data upload procedure, call the fileop *datauploadinit* function that returns the URL of the destination file and the token that will be used in the certificate upload operations, as follows:

```
curl -H "Content-Type:application/json" -k -u
admin:infoblox -X POST \
https://127.0.0.1/wapi/v2.14/fileop?_function=uploadinit
-d '{}'
```

The server will return URL for direct upload and file token to use in fileop function calls:

```
{
    "token": "eJydUMtOwzAQvO+...",
    "url": "https://127.0.0.1/http_direct_file_io/..."
}
```

Using curl we can upload contents of the CA certificate (ca.cert.pem) to a URL returned from *datauploadinit* operation:

```
curl -k1 -u admin:infoblox -F file=@ca.cert.pem \
"https://127.0.0.1/http_direct_file_io/..."
```

To upload the CA certificate (cacertificate), call the fileop *uploadcertificate* function with the *certificate_usage* parameter set to **EAP_CA**, *member* set to a desired member hostname, and *token* set to a token value returned by a fileop *datauploadinit* function call, as follows:

```
curl -k1 -u admin:infoblox -X POST -H "Content-Type:
application/json" \
https://127.0.0.1/wapi/v2.14/fileop?
_function=uploadcertificate -d \
'{
    "certificate_usage": "EAP_CA",
    "member": "infoblox.localdomain",
    "token": "eJydUMtOwzAQvO+..."
}'
```

The server will return empty dictionary if operation succeeds:

```
{}
```

Run the GET operation to verify that the cacertificate is now present in the database, as follows:

```
curl -k1 -u admin:infoblox -X GET
https://127.0.0.1/wapi/v2.14/cacertificate
```

The server will return cacertificate object:

```
[
    {
        "_ref": "cacertificate/b25lLmVhcF9j...",
        "distinguished_name": "CN=\"ib-root-ca\"",
        "issuer": "CN=\"ib-root-ca\"",
        "serial": "9f770b9a53359c6b",
        "valid_not_after": 1528955885,
        "valid_not_before": 1497419885
    }
]
```

Create Admin User

Create adminuser object with *name* matching the client.cert.pem SAN e-mail, as follows:

```
curl -k1 -u admin:infoblox -H "Content-Type:
application/json" -X POST \
https://127.0.0.1/wapi/v2.14/adminuser -d \
'{
    "admin_groups": ["admin-group"],
    "name": "employee@infoblox.com",
    "password": "infoblox"
}'
```

The server will return a reference to the adminuser that was just created:

```
"adminuser/b25lLmFkbWluJGVtcGxveWVlQGluZm9ibG94LmNvbQ:emp
```

Create Certificate Authentication Service (CAS)

Create certificate:authservice object with OCSP disabled (for simplicity), and the CA certificate set to a previously installed CA certificate (ca.cert.pem). To drop password authentication, *enable_password_request* is set to “false”. The **AUTO_MATCH** match type forces NIOS to extract the username from the certificate and searches for it in effective authorization policies based on the configured match policies. The *auto_populate_login* setting specifies the match policy, that is, match by e-mail address in the SAN, as follows:

```
curl -k1 -u admin:infoblox -H "Content-Type:
```

```
application/json" -X POST \
https://127.0.0.1/wapi/v2.14/certificate:authservice -d
\
'{
    "name": "cert-login",
    "ocsp_check": "DISABLED",
    "ca_certificates": [
        "cacertificate/b25lLmVhcF9j..."
    ],
    "enable_password_request": false,
    "client_cert_subject": "",
    "trust_model": "DIRECT",
    "user_match_type": "AUTO_MATCH",
    "auto_populate_login": "SAN_EMAIL"
}'
```

The server will return a reference to the certificate:authservice object that was just created:

```
"certificate:authservice/b25lLm9jc3BfYXV0aF9zZXJ2aWNlJGNl
login"
```

Include CAS to Authentication Policy

You need to include the Certificate Authentication Policy in the list of Grid authentication policies. To do so, first perform the GET operation on the authpolicy object object, as follows:

```
curl -k1 -u admin:infoblox -X GET \
https://127.0.0.1/wapi/v2.14/authpolicy?
_return_fields=auth_services
```

The server will return an authpolicy object:

```
[
    {
        "_ref":
"authpolicy/b25lLnJlbW90ZV9hZG1pbl9wb2xpY3kkMA:authpolicy

        "auth_services": [

"localuser:authservice/Li5sb2NhbF91c2VyX2F1dGhfc2VydmljZS

        ]
    }
]
```

Then, update the authpolicy object. Note that the CAS reference should precede the Local User Authentication Service to avoid server performing password authentication, as follows:

```
curl -k1 -u admin:infoblox -H "Content-Type:
application/json" -X PUT \
https://127.0.0.1/wapi/v2.14/authpolicy/b25lLnJlbW90ZV9hZ
 -d \
'{
```

```
    "auth_services": [

"certificate:authservice/b25lLm9jc3BfYXV0aF9zZXJ2aWNlJGNl
login",

"localuser:authservice/Li5sb2NhbF91c2VyX2F1dGhfc2VydmljZS

    ]
}'
```

The server will return reference to the authpolicy object if the operation succeeds:

```
"authpolicy/b25lLnJlbW90ZV9hZG1pbl9wb2xpY3kkMA:authpolicy
```

Restart product and run sample GET

Perform the GET operation on any object (admingroup in our example) using the client key and client certificate, as follows:

```
curl -k -v -s --key client.key.pem --cert
client.cert.pem \
-X GET https://127.0.0.1/wapi/v2.14/admingroup
```

Verbose (*-v*) output of the curl command is included to verify the TLS connection, as follows:

```
*   Trying 127.0.0.1...
* Connected to 127.0.0.1 (127.0.0.1) port 443 (#0)
* ALPN, offering http/1.1
* Cipher selection:
ALL:!EXPORT:!EXPORT40:!EXPORT56:!aNULL:!LOW:!RC4:@STRENGT

* successfully set certificate verify locations:
*   CAfile: /etc/pki/tls/certs/ca-bundle.crt
CApath: none
* TLSv1.2 (OUT), TLS header, Certificate Status (22):
* TLSv1.2 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS handshake, Server key exchange (12):
* TLSv1.2 (IN), TLS handshake, Server finished (14):
* TLSv1.2 (OUT), TLS handshake, Client key exchange
(16):
* TLSv1.2 (OUT), TLS change cipher, Client hello (1):
* TLSv1.2 (OUT), TLS handshake, Finished (20):
* TLSv1.2 (IN), TLS change cipher, Client hello (1):
* TLSv1.2 (IN), TLS handshake, Finished (20):
* SSL connection using TLSv1.2 / DHE-RSA-AES128-GCM-
SHA256
* ALPN, server did not agree to a protocol
* Server certificate:
*        subject: C=US; ST=California; L=Sunnyvale;
O=Infoblox; OU=Engineering; CN=www.infoblox.com
*        start date: 2017-07-13 08:09:23 GMT
*        expire date: 2018-07-13 08:09:23 GMT
*        issuer: C=US; ST=California; L=Sunnyvale;
O=Infoblox; OU=Engineering; CN=www.infoblox.com
*        SSL certificate verify result: self signed
```

```
certificate (18), continuing anyway.
> GET /wapi/v2.14/admingroup HTTP/1.1
> Host: 127.0.0.1
> User-Agent: curl/7.43.0
> Accept: */*
>
* TLSv1.2 (IN), TLS handshake, Hello request (0):
* TLSv1.2 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS handshake, Server key exchange (12):
* TLSv1.2 (IN), TLS handshake, Request CERT (13):
* TLSv1.2 (IN), TLS handshake, Server finished (14):
* TLSv1.2 (OUT), TLS handshake, Certificate (11):
* TLSv1.2 (OUT), TLS handshake, Client key exchange
(16):
* TLSv1.2 (OUT), TLS handshake, CERT verify (15):
* TLSv1.2 (OUT), TLS change cipher, Client hello (1):
* TLSv1.2 (OUT), TLS handshake, Finished (20):
* TLSv1.2 (IN), TLS change cipher, Client hello (1):
* TLSv1.2 (IN), TLS handshake, Finished (20):
< HTTP/1.1 200 OK
< Date: Thu, 13 Jul 2017 08:25:10 GMT
< WWW-Authenticate: Basic realm="InfoBlox ONE Platform"
< Cache-Control: no-cache, no-store
< Pragma: no-cache
< Content-Type: application/json
< set-cookie:
ibapauth="ip=127.0.0.1,client=API,group=admin-
group,ctime=1499934313,timeout=600,mtime=1499934313,su=1,
 httponly; Path=/; secure
< Transfer-Encoding: chunked
<

[
    {
        "_ref":
"admingroup/b25lLmFkbWluX2dyb3VwJC5zcGx1bmstcmVwb3J0aW5nL
reporting-group",
        "name": "splunk-reporting-group"
    },
    {
        "_ref":
"admingroup/b25lLmFkbWluX2dyb3VwJC5hZG1pbi1ncm91cA:admin-
group",
        "name": "admin-group"
    },
    {
        "_ref":
"admingroup/b25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seQ:cl
api-only",
        "comment": "Admins allowed to perform API
request on Cloud API",
        "name": "cloud-api-only"
    }
]

* Connection #0 to host 127.0.0.1 left intact
```

Note that you can incorporate the client key in the client certificate (simply concatenate the certificate and key files), and then use only the *–cert* option.

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scheduledtask : Scheduled Task object.

This object represents a scheduled task.

Object Reference

References to scheduledtask are object references. The *name* part of a scheduled task object reference has the following components:

- The Task ID of the task
- Execution status of the task

Example (using _ref or UUID):

```
# Using _ref
scheduledtask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:12/PENDING

# Using UUID
scheduledtask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **approval_status, execution_status, task_id, uuid**.

approval_status

`approval_status`

The approval status of the task.

Type

String.

Valid values are:

- APPROVED
- NONE
- PENDING
- REJECTED

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The approval_status is part of the base object.

approver

`approver`

The approver of the task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The approver cannot be updated.

approver cannot be written.

approver_comment

`approver_comment`

The comment specified by the approver of the task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

automatic_restart

`automatic_restart`

Indicates whether there will be an automatic restart when the appliance executes the task.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

changed_objects

`changed_objects`

A list of objects that are affected by the task.

Type

A/An Changed object information struct array.

Search

The field is not available for search.

Notes

The changed_objects cannot be updated.

changed_objects cannot be written.

dependent_tasks

dependent_tasks

If this scheduled task has dependent tasks, their references will be returned in this field.

Type

A/An scheduledtask object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The dependent_tasks cannot be updated.

dependent_tasks cannot be written.

execute_now

execute_now

If this field is set to True the specified task will be executed immediately.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

execute_now is not readable.

execution_details

execution_details

Messages generated by the execution of the scheduled task after its completion.

Type

String array.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The execution_details cannot be updated.

execution_details cannot be written.

execution_details_type

`execution_details_type`

The type of details generated by the execution of the scheduled task after its completion.

Type

String.

Valid values are:

- NONE
- WARNING

Search

The field is not available for search.

Notes

The execution_details_type cannot be updated.

execution_details_type cannot be written.

execution_status

`execution_status`

The execution status of the task.

Type

String.

Valid values are:

- COMPLETED
- FAILED
- PENDING
- WAITING_EXECUTION

Search

The field is available for search via

- '=' (exact equality)

Notes

The execution_status is part of the base object.

The execution_status cannot be updated.

execution_status cannot be written.

execution_time

`execution_time`

The time when the appliance executed the task.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The execution_time cannot be updated.

execution_time cannot be written.

is_network_insight_task

`is_network_insight_task`

Indicates whether this is a Network Insight scheduled task.

Type

Bool.

Search

The field is not available for search.

Notes

The is_network_insight_task cannot be updated.

is_network_insight_task cannot be written.

member

`member`

The member where this task was created.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member cannot be updated.

member cannot be written.

predecessor_task

`predecessor_task`

If this scheduled task has a predecessor task set, its reference will be returned in this field.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The predecessor_task cannot be updated.

predecessor_task cannot be written.

re_execute_task

`re_execute_task`

If set to True, if the scheduled task is a Network Insight task and it failed, a new task will be cloned from this task and re-executed.

Type

Bool.

Create

The default value is *empty*.

Search

The field is not available for search.

scheduled_time

`scheduled_time`

The time when the task is scheduled to occur.

Type

Timestamp.

Create

The default value is *The scheduled time*.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

submit_time

`submit_time`

The time when the task was submitted.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The submit_time cannot be updated.

submit_time cannot be written.

submitter

`submitter`

The submitter of the task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The submitter cannot be updated.

submitter cannot be written.

submitter_comment

`submitter_comment`

The comment specified by the submitter of the task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

task_id

`task_id`

The task ID.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The task_id is part of the base object.

The task_id cannot be updated.

task_id cannot be written.

task_type

`task_type`

The task type.

Type

String.

Valid values are:

- OBJECT_CHANGE
- PORT_CONTROL

Search

The field is not available for search.

Notes

The task_type cannot be updated.

task_type cannot be written.

ticket_number

`ticket_number`

The task ticket number.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ticket_number cannot be updated.

ticket_number cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

changed_objects.action

`changed_objects.`**`action`**

The action to search for, valid values are:

- Convert IPv4 Lease
- Delete
- Restart Services
- Add
- Convert IPv6 Lease
- Lock/Unlock Zone
- Reset Grid
- Configure Grid

- Restart Services
- Network Discovery
- Upgrade Grid
- Modify

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

changed_objects.action is a search-only field.

changed_objects.name

`changed_objects.`**`name`**

The name of the changed object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

changed_objects.name is a search-only field.

changed_objects.object_type

`changed_objects.`**`object_type`**

The WAPI object type of the specified object.

Type

String.

Search

The field is available for search via

‘=’ (exact equality)

Notes

changed_objects.object_type is a search-only field.

changed_objects.type

`changed_objects.`**`type`**

The object type. Following are samples of valid type values:

- A Record
- AAAA Record
- Authoritative Zone
- Bulk Host
- CNAME Record
- Delegated Zone
- DHCP Range
- DNAME Record
- DNS View
- Fixed Address
- Forward Zone
- Host Record
- IPv4 Network
- IPv4 Network Container
- IPv6 Network
- IPv6 Network Container
- MX Record
- NS Record
- PTR Record
- Reservation
- Roaming Host
- Shared A Record
- Shared AAAA Record
- Shared MX Record
- Shared Network
- Shared Record Group
- Shared SRV Record
- Shared TXT Record
- SRV Record
- Stub Zone
- TXT Record

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)

- ‘=’ (exact equality)

Notes

changed_objects.type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
approval_status	String	N	N	Y	=
approver	String	N	Y	N	: = ~
approver_comment	String	N	N	N	N/A
automatic_restart	Bool	N	N	N	N/A
changed_objects	[struct]	N	Y	N	N/A
dependent_tasks	[obj]	N	Y	N	N/A
execute_now	Bool	N	N	N	N/A
execution_details	[String]	N	Y	N	N/A
execution_details_type	String	N	Y	N	N/A
execution_status	String	N	Y	Y	=
execution_time	Timestamp	N	Y	N	< = >
is_network_insight_task	Bool	N	Y	N	N/A
member	String	N	Y	N	=
predecessor_task	String	N	Y	N	N/A
re_execute_task	Bool	N	N	N	N/A
scheduled_time	Timestamp	N	N	N	< = >
submit_time	Timestamp	N	Y	N	< = >
submitter	String	N	Y	N	: = ~
submitter_comment	String	N	N	N	N/A
task_id	Unsigned int	N	Y	Y	=
task_type	String	N	Y	N	N/A
ticket_number	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
changed_objects.action	String	=
changed_objects.name	String	: = ~
changed_objects.object_type	String	=
changed_objects.type	String	: = ~

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request : WAPI handler object.
- Object Reference
- Restrictions

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recordnamepolicy : Record name policy object.

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restartservicestatus : Restart service status object.

request : WAPI handler object.

This object allows the control of WAPI through a single entry point. The object supports only the POST method and does not support URI arguments.

Single object body requests

The following fields are supported for single object body requests:

Field	Description
data	Dictionary. Data that is dependent on the method and is sent in the body of a normal WAPI request.
args	Dictionary. Arguments for object body requests. These arguments are appended to the URI in a normal WAPI request, such as _max_results, _return_fields, etc.
method	String. Method of the operation (see below for more information).
object	String. The object used for the operation. For a normal WAPI, this can either be an object type such as ‘network’ for a GET operation, or a WAPI object such as ‘network/dAs4…’ for a PUT operation.

Single object body requests can be used for any supported WAPI operations, including scheduling and approval. Scheduling and approval specific options should be added to the arguments field of the request.

Only HTTP methods (GET, PUT, DELETE and POST) are valid methods for the single object body requests.

For a single object body request example, see the sample code section in the manual.

Multiple object body requests

Multiple object body requests are composed of a list of single requests. Each single request supports the same fields as the single object body request (with some limitations) and the following fields:

Field	Description
enable_substitution	Boolean. Determines if the variables created in the stated request can be used for the current operation.
	Dictionary. Fields of the result object in

assign_state	the current operation, which should be saved in the request state object for the next operation in the multiple object body request. This also supports saving the extensible attribute value and a specific array member. See below for more information.
discard	Boolean. Result of the current operation will be skipped and will not be added to the returned result list.

Only the following arguments are supported for each individual request: '_function', '_schema', '_return_fields', '_return_fields+', '_return_as_object', '_max_results'.

If the 'assign_state' field is set, '_return_as_object' will be automatically added to the request arguments.

In addition to the standard HTTP methods, single request inside a multiple object body request can be set to these values:

Method	Description
STATE:ASSIGN	Copy fields in the data object to the state object.
STATE:DISPLAY	Added the state object to the returned result list.

For a multiple object body request example, see the sample code section in the manual.

To save the extensible attribute value to the request state object, the 'extattrs' field must be specified in the '_return_fields' argument. To select and save a specific extensible attribute, prefix the extensible attribute name with an asterisk (*). See an example in the manual.

Object Reference

This object does not support references.

Restrictions

The object does not support the following operations:

- Delete
- Read (retrieve)
- Modify (update)
- Function calls
- Permissions
- Global search (searches via the search object)

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

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  - networking_set_commands
  - networking_show_commands
  - password_setting
  - roles
  - saml_setting
  - security_set_commands
  - security_show_commands
  - superuser
  - trouble_shooting_toplevel_commands
  - use_account_inactivity_lockout_enable
  - use_disable_concurrent_login
  - use_lockout_setting
  - use_password_setting
  - user_access
  - uuid

admingroup : Admin Group object.

An Admin Group object creates and manages a local admin group on the Infoblox appliance. The privileges and properties that are set for the group apply to all the admin accounts that are assigned to the group.

Object Reference

References to admingroup are object references.

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

access_method

`access_method`

Access methods specify whether an admin group can use the GUI and the API to access the appliance or to send Taxii messages to the appliance. Note that API includes both the Perl API and RESTful API.

Type

Enum values array.

Valid values are:

- API
- CLI
- CLOUD_API
- GUI
- TAXII

Create

The default value is *['GUI', 'API', 'TAXII', 'CLI']*.

Search

The field is not available for search.

admin_set_commands

admin_set_commands

Admin set commands for the admin command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_admin_group_acl': False,
'set_analytics_parameter': False,
'set_bfd': False,
'set_bgp': False,
'set_clean_mscache': False,
'set_collect_old_logs': False,
'set_core_files_quota': False,
'set_debug': False,
'set_delete_tasks_interval': False,
'set_disable_gui_one_click_support': False,
'set_enable_doh_key_logging': False,
'set_enable_dot_key_logging': False,
'set_expertmode': False,
'set_hardware_type': False,
'set_hotfix': False,
'set_hsm_group': False,
'set_hw_ident': False,
'set_ibtrap': False,
'set_lines': False,
'set_maintenancemode': False,
'set_mgm': False,
'set_ms_max_connection': False,
'set_nosafemode': False,
'set_ntp_stratum': False,
'set_ocsp': False,
'set_pc_domain': False,
'set_query_logging_warnings': False,
'set_report_frequency': False,
'set_safemode': False,
'set_scheduled': False,
'set_snmptrap': False,
'set_sysname': False,
'set_term': False,
'set_thresholdtrap': False,
'set_transfer_reporting_data': False,
'set_transfer_supportbundle': False,
'set_wred': False}
```

Search

The field is not available for search.

admin_show_commands

admin_show_commands

Admin show commands for the admin command group.

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_admin_group_acl': False,
'show_arp': False,
'show_bfd': False,
'show_bgp': False,
'show_capacity': False,
'show_clusterd_info': False,
'show_config': False,
'show_cores': False,
'show_coresummary': False,
'show_cpu': False,
'show_csp_threat_db': False,
'show_date': False,
'show_debug': False,
'show_delete_tasks_interval': False,
'show_disk': False,
'show_hardware_type': False,
'show_hsm_group': False,
'show_hsm_info': False,
'show_hw_ident': False,
'show_hwid': False,
'show_ibtrap': False,
'show_log': False,
'show_logfiles': False,
'show_memory': False,
'show_ntp': False,
'show_ntp_stratum': False,
'show_pc_domain': False,
'show_pmap': False,
'show_process': False,
'show_pstack': False,
'show_query_logging_warnings': False,
'show_report_frequency': False,
'show_safenet_support_info': False,
'show_scheduled': False,
'show_snmp': False,
'show_status': False,
'show_tech_support': False,
'show_temperature': False,
'show_thresholdtrap': False,
'show_upgrade_history': False,
'show_uptime': False,
'show_version': False,
'show_wred_stats': False,
'show_wred_status': False}
```

Search

The field is not available for search.

admin_toplevel_commands

`admin_toplevel_commands`

Admin_toplevel commands for the admin command group

Type

A/An Toplevel commands struct.

Create

The default value is:

```
  { 'iostat': False,
'netstat': False,
'ps': False,
'rndc': False,
'sar': False,
'synctime': False,
'tcpdump': False,
'vmstat': False}
```

Search

The field is not available for search.

cloud_set_commands

`cloud_set_commands`

Cloud set commands for the cloud command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_cloud_services_portal': False,
'set_cloud_services_portal_force_refresh': False}
```

Search

The field is not available for search.

cloud_show_commands

`cloud_show_commands`

Cloud show commands for admin group

Type

A/An Show commands struct.

Create

The default value is:

```
{'show_cloud_services_portal': False}
```

Search

The field is not available for search.

comment

`comment`

Comment for the Admin Group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

database_set_commands

`database_set_commands`

Database show commands for admin group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_circ_txn_trace': False,
'set_database_transfer': False,
'set_db_rollover': False,
'set_db_snapshot': False,
'set_dbsize': False,
'set_debug_tools': False,
'set_named_max_journal_size': False,
'set_txn_trace': False}
```

Search

The field is not available for search.

database_show_commands

`database_show_commands`

Database show commands for the database command

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_backup': False,
'show_database_transfer_status': False,
'show_db_ph': False,
'show_dbsize': False,
'show_ibdbstat': False,
'show_named_max_journal_size': False,
'show_txn_trace': False}
```

Search

The field is not available for search.

dhcp_set_commands

dhcp_set_commands

Dhcp set commands for the dhcp command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_dhcpd_recv_sock_buf_size': False,
'set_log_txn_id': False,
'set_overload_bootp': False,
'set_regenerate_dhcp_updater_keys': False}
```

Search

The field is not available for search.

dhcp_show_commands

dhcp_show_commands

Dhcp show commands for the dhcp command group.

Type

A/An show commands struct.

Create

The default value is:

```
  { 'show_dhcpd_recv_sock_buf_size': False,
'show_log_txn_id': False,
'show_overload_bootp': False}
```

Search

The field is not available for search.

disable

disable

Determines whether the Admin Group is disabled or not. When this is set to False, the Admin Group is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_concurrent_login

`disable_concurrent_login`

Disable concurrent login feature

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_set_commands

`dns_set_commands`

Dns set commands for the dns command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_allow_query_domain': False,
'set_dns': False,
'set_dns_accel': False,
'set_dns_accel_debug': False,
'set_dns_auto_gen': False,
'set_dns_rrl': False,
'set_enable_match_recursive_only': False,
'set_log_guest_lookups': False,
'set_max_recursion_depth': False,
'set_max_recursion_queries': False,
'set_monitor': False,
'set_ms_dns_reports_sync_interval': False,
'set_ms_sticky_ip': False,
'set_restart_anycast_with_dns_restart': False,
'set_rpz_add_soa': False}
```

Search

The field is not available for search.

dns_show_commands

dns_show_commands

Dns show commands for the dns command group.

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_allow_query_domain': False,
'show_allow_query_domain_views': False,
'show_dns': False,
'show_dns_accel': False,
'show_dns_accel_debug': False,
'show_dns_rrl': False,
'show_dtc_ea': False,
'show_dtc_geoip': False,
'show_enable_match_recursive_only': False,
'show_log_guest_lookups': False,
'show_max_recursion_depth': False,
'show_max_recursion_queries': False,
'show_monitor': False,
'show_ms_sticky_ip': False,
'show_query_capture': False,
'show_restart_anycast_with_dns_restart': False,
'show_rpz_add_soa': False}
```

Search

The field is not available for search.

dns_toplevel_commands

dns_toplevel_commands

Dns toplevel commands for the dns command group.

Type

A/An Toplevel commands struct.

Create

The default value is:

```
  { 'ddns_add': False,
'ddns_delete': False,
'delete': False,
'dns_a_record_delete': False}
```

Search

The field is not available for search.

docker_set_commands

docker_set_commands

Docker set commands for the dcoker command group.

Type

A/An Set commands struct.

Create

The default value is:

```
{'set_docker_bridge': False}
```

Search

The field is not available for search.

docker_show_commands

docker_show_commands

Docker show commands for the dcoker command group.

Type

A/An Show commands struct.

Create

The default value is:

```
{'show_docker_bridge': False}
```

Search

The field is not available for search.

email_addresses

email_addresses

The e-mail addresses for the Admin Group.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_restricted_user_access

enable_restricted_user_access

Determines whether the restrictions will be applied to the admin connector level for users of this Admin Group.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

grid_set_commands

grid_set_commands

Grid set commands for the grid command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_default_revert_window': False,
'set_dscp': False,
'set_membership': False,
'set_nogrid': False,
'set_nomastergrid': False,
'set_promote_master': False,
'set_revert_grid': False,
```

```
'set_token': False}
```

Search

The field is not available for search.

grid_show_commands

`grid_show_commands`

Show commands for the grid command group.

Type

A/An Show commands struct.

Create

The default value is:

```
{'show_token': False}
```

Search

The field is not available for search.

inactivity_lockout_setting

`inactivity_lockout_setting`

The Admin group inactivity lockout settings.

Type

A/An Inactivity Lockout settings struct.

Create

The default value is:

```
  { 'account_inactivity_lockout_enable': False,
'inactive_days': 30,
'reactivate_via_remote_console_enable': True,
'reactivate_via_serial_console_enable': True,
'reminder_days': 15}
```

Search

The field is not available for search.

Notes

inactivity_lockout_setting is associated with the field use_account_inactivity_lockout_enable (see use flag).

licensing_set_commands

`licensing_set_commands`

Set commands for the licensing command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_license': False,
'set_reporting_reset_license': False,
'set_temp_license': False}
```

Search

The field is not available for search.

licensing_show_commands

`licensing_show_commands`

Show commands for the licensing command group.

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_license': False,
'show_license_pool_container': False,
'show_license_uid': False}
```

Search

The field is not available for search.

lockout_setting

`lockout_setting`

This struct specifies security policy settings in admin group.

Type

A/An lockout_setting struct.

Create

The default value is:

```
  { 'enable_sequential_failed_login_attempts_lockout': False,
'failed_lockout_duration': 5,
'never_unlock_user': False,
'sequential_attempts': 5}
```

Search

The field is not available for search.

Notes

lockout_setting is associated with the field use_lockout_setting (see use flag).

machine_control_toplevel_commands

machine_control_toplevel_commands

Machine control toplevel commands for the machine control command group.

Type

A/An Toplevel commands struct.

Create

The default value is:

```
{'reboot': False, 'reset': False, 'restart': False, 'shutdown': False}
```

Search

The field is not available for search.

name

name

The name of the Admin Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

networking_set_commands

networking_set_commands

Set commands for the networking command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_connection_limit': False,
'set_interface': False,
'set_ip_rate_limit': False,
'set_ipv6_disable_on_dad': False,
'set_ipv6_neighbor': False,
'set_ipv6_ospf': False,
'set_ipv6_status': False,
'set_lom': False,
'set_mld_version_1': False,
'set_named_recv_sock_buf_size': False,
'set_named_tcp_clients_limit': False,
'set_network': False,
'set_ospf': False,
'set_prompt': False,
'set_remote_console': False,
'set_static_route': False,
'set_tcp_timestamps': False,
'set_traffic_capture': False,
'set_wins_forwarding': False}
```

Search

The field is not available for search.

networking_show_commands

networking_show_commands

Show commands for the networking command group.

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_connection_limit': False,
'show_connections': False,
'show_default_route': False,
'show_interface': False,
'show_interface_stats': False,
'show_ip_rate_limit': False,
'show_iproute': False,
'show_iprule': False,
'show_iptables': False,
'show_ipv6_bgp': False,
'show_ipv6_disable_on_dad': False,
'show_ipv6_neighbor': False,
'show_ipv6_ospf': False,
'show_lom': False,
'show_mld_version': False,
'show_mtu_size': False,
'show_named_recv_sock_buf_size': False,
'show_named_tcp_clients_limit': False,
'show_network': False,
'show_network_connectivity': False,
'show_ospf': False,
'show_remote_console': False,
```

```
'show_routes': False,
'show_static_routes': False,
'show_tcp_timestamps': False,
'show_traffic_capture_status': False,
'show_trafficfiles': False,
'show_wins_forwarding': False}
```

Search

The field is not available for search.

password_setting

`password_setting`

The Admin Group password settings.

Type

A/An Password settings struct.

Create

The default value is:

```
{'expire_days': 30, 'expire_enable': False, 'reminder_days': 15}
```

Search

The field is not available for search.

Notes

password_setting is associated with the field use_password_setting (see use flag).

roles

`roles`

The names of roles this Admin Group applies to.

Type

String array.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

saml_setting

`saml_setting`

The Admin Group SAML settings.

Type

A/An SAML settings struct.

Create

The default value is:

```
{'auto_create_user': False, 'persist_auto_created_user': False}
```

Search

The field is not available for search.

security_set_commands

`security_set_commands`

Set commands for the security command group.

Type

A/An Set commands struct.

Create

The default value is:

```
  { 'set_adp': False,
'set_apache_https_cert': False,
'set_cc_mode': False,
'set_certificate_auth_admins': False,
'set_certificate_auth_services': False,
'set_check_auth_ns': False,
'set_disable_https_cert_regeneration': False,
'set_fips_mode': False,
'set_reporting_cert': False,
'set_security': False,
'set_session_timeout': False,
'set_subscriber_secure_data': False,
'set_support_access': False,
'set_support_timeout': False,
'set_update_rabbitmq_password': False}
```

Search

The field is not available for search.

security_show_commands

`security_show_commands`

Show commands for the security command group.

Type

A/An Show commands struct.

Create

The default value is:

```
  { 'show_cc_mode': False,
'show_certificate_auth_admins': False,
'show_certificate_auth_services': False,
'show_check_auth_ns': False,
'show_fips_mode': False,
'show_security': False,
'show_session_timeout': False,
'show_subscriber_secure_data': False,
'show_support_access': False,
'show_support_timeout': False,
'show_vpn_cert_dates': False}
```

Search

The field is not available for search.

superuser

`superuser`

Determines whether this Admin Group is a superuser group. A superuser group can perform all operations on the appliance, and can view and configure all types of data.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

trouble_shooting_toplevel_commands

`trouble_shooting_toplevel_commands`

Toplevel commands for the troubleshooting command group.

Type

A/An Toplevel commands struct.

Create

The default value is:

```
  { 'console': False,
'dig': False,
'ping': False,
'ping6': False,
'rotate': False,
'snmpget': False,
'snmpwalk': False,
'strace': False,
'traceroute': False,
'traffic_capture': False}
```

Search

The field is not available for search.

use_account_inactivity_lockout_enable

`use_account_inactivity_lockout_enable`

This is the use flag for account inactivity lockout settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable_concurrent_login

`use_disable_concurrent_login`

Whether to override grid concurrent login

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lockout_setting

`use_lockout_setting`

Whether to override grid sequential lockout setting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_password_setting

use_password_setting

Whether grid password expiry setting should be override.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

user_access

user_access

The access control items for this Admin Group.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
access_method	[Enum]	N	N	N	N/A
admin_set_commands	struct	N	N	N	N/A
admin_show_commands	struct	N	N	N	N/A
admin_toplevel_commands	struct	N	N	N	N/A
cloud_set_commands	struct	N	N	N	N/A
cloud_show_commands	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
database_set_commands	struct	N	N	N	N/A
database_show_commands	struct	N	N	N	N/A
dhcp_set_commands	struct	N	N	N	N/A
dhcp_show_commands	struct	N	N	N	N/A
disable	Bool	N	N	N	N/A
disable_concurrent_login	Bool	N	N	N	N/A
dns_set_commands	struct	N	N	N	N/A
dns_show_commands	struct	N	N	N	N/A
dns_toplevel_commands	struct	N	N	N	N/A
docker_set_commands	struct	N	N	N	N/A
docker_show_commands	struct	N	N	N	N/A
email_addresses	[String]	N	N	N	N/A
enable_restricted_user_access	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
grid_set_commands	struct	N	N	N	N/A
grid_show_commands	struct	N	N	N	N/A
inactivity_lockout_setting	struct	N	N	N	N/A
licensing_set_commands	struct	N	N	N	N/A
licensing_show_commands	struct	N	N	N	N/A
lockout_setting	struct	N	N	N	N/A
machine_control_toplevel_commands	struct	N	N	N	N/A
name	String	Y	N	Y	: = ~
networking_set_commands	struct	N	N	N	N/A
networking_show_commands	struct	N	N	N	N/A
password_setting	struct	N	N	N	N/A
roles	[String]	N	N	N	=
saml_setting	struct	N	N	N	N/A
security_set_commands	struct	N	N	N	N/A
security_show_commands	struct	N	N	N	N/A
superuser	Bool	N	N	N	=
trouble_shooting_toplevel_commands	struct	N	N	N	N/A
use_account_inactivity_lockout_enable	Bool	N	N	N	N/A
use_disable_concurrent_login	Bool	N	N	N	N/A
use_lockout_setting	Bool	N	N	N	N/A
use_password_setting	Bool	N	N	N	N/A
user_access	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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adminuser : Admin User object.

adminrole : Admin Role object.

An Admin Role object creates and manages a local admin role on the Infoblox appliance. A Role object is used to aggregate a set of permissions (represented by Permission objects).

The *name* part of the admin role object reference has the following components:

- Name of the Admin Role object

Example (using _ref or UUID):

```
# Using _ref
adminrole/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default

# Using UUID
adminrole/123e4567e89b12d3a456426614174000
```

Object Reference

References to adminrole are object references.

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The descriptive comment of the Admin Role object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

The disable flag.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name of an admin role.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

adminuser : Admin User object.
- Object Reference
- Restrictions
- Fields
  - admin_groups
  - auth_method
  - auth_type
  - ca_certificate_issuer
  - client_certificate_serial_number
  - comment
  - disable
  - email
  - enable_certificate_authentication
  - extattrs
  - name
  - password
  - ssh_keys
  - status
  - time_zone
  - use_ssh_keys
  - use_time_zone
  - uuid
- Search-only Fields
  - role
- Fields List
- Search-only Fields List

Previous topic

adminrole : Admin Role object.

Next topic

allendpoints : All Endpoints object.

adminuser : Admin User object.

An admin account provides access to the Infoblox appliance. An admin account inherits the privileges and properties of the group to which it belongs.

Object Reference

References to adminuser are object references. The *name* part of admin User properties object reference has the following components:

- The name of the admin user

Example (using _ref or UUID):

```
# Using _ref adminuser/ZG5zLm5ldHdvcmtfdmlldyQxMTk:user1

# Using UUID adminuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **admin_groups, comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
admin_groups	
name	
password	See the field description for more information

admin_groups

`admin_groups`

The names of the Admin Groups to which this Admin User belongs.

Currently, this is limited to only one Admin Group.

Type

String array. The array supports a maximum of 1 element(s).

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The admin_groups is part of the base object.

auth_method

`auth_method`

Determines the way of authentication

Type

String.

Valid values are:

- KEYPAIR
- KEYPAIR_PASSWORD

Create

The default value is *KEYPAIR*.

Search

The field is not available for search.

auth_type

`auth_type`

The authentication type for the admin user.

Type

String.

Valid values are:

- LOCAL
- REMOTE
- SAML
- SAML_LOCAL

Create

The default value is *LOCAL*.

Search

The field is not available for search.

ca_certificate_issuer

`ca_certificate_issuer`

The CA certificate that is used for user lookup during authentication.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

client_certificate_serial_number

`client_certificate_serial_number`

The serial number of the client certificate.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

comment

`comment`

Comment for the admin user; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the admin user is disabled or not. When this is set to False, the admin user is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

email

`email`

The e-mail address for the admin user.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_certificate_authentication

`enable_certificate_authentication`

Determines whether the user is allowed to log in only with the certificate. Regular username/password authentication will be disabled for this user.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name of the admin user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

password

`password`

The password for the administrator to use when logging in.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The password field is required if auth_type is not REMOTE or SAML.

Search

The field is not available for search.

Notes

password is not readable.

ssh_keys

`ssh_keys`

List of ssh keys for a particular user.

Type

A/An 'List of ssh keys for a particular user struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

status

`status`

Status of the user account.

Type

String.

Valid values are:

- ACTIVE
- DISABLED
- INACTIVE
- LOCKED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status cannot be updated.

status cannot be written.

time_zone

`time_zone`

The time zone for this admin user.

Type

String.

Create

The default value is *UTC*.

Search

The field is not available for search.

Notes

time_zone is associated with the field use_time_zone (see use flag).

use_ssh_keys

`use_ssh_keys`

,

Enable/disable the ssh keypair authentication.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_time_zone

`use_time_zone`

Use flag for: time_zone

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

role

`role`

The Role name to search for. If an empty string is specified, all users without Roles will be searched.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

role is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
admin_groups	[String]	Y	N	Y	=
auth_method	String	N	N	N	N/A
auth_type	String	N	N	N	N/A
ca_certificate_issuer	String	N	N	N	=
client_certificate_serial_number	String	N	N	N	= ~
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
email	String	N	N	N	N/A
enable_certificate_authentication	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
password	String	Y*	N	N	N/A
ssh_keys	[struct]	N	N	N	N/A
status	String	N	Y	N	=
time_zone	String	N	N	N	N/A
use_ssh_keys	Bool	N	N	N	N/A
use_time_zone	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
role	String	=

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Table of Contents

allendpoints : All Endpoints object.
- Object Reference
- Restrictions
- Fields
  - address
  - comment
  - disable
  - subscribing_member
  - type
  - version
- Fields List

Previous topic

adminuser : Admin User object.

Next topic

allnsgroup : All NS Group object.

allendpoints : All Endpoints object.

The object provides information about all third-party servers configured on the Grid.

Object Reference

References to allendpoints are object references.

The *name* part of a Grid endpoint reference has the following components:

- name of the endpoint for DXL and RESTAPI endpoints or an address for the Cisco ISE endpoint

Example:
allendpoints/ZG5zLm5ldHdvcmtfdmlldyQxMTk:10.0.0.10

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

address

address

The Grid endpoint IPv4 Address or IPv6 Address or Fully-Qualified Domain Name (FQDN).

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The address cannot be updated.

address cannot be written.

comment

`comment`

The Grid endpoint descriptive comment.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

disable

`disable`

Determines whether a Grid endpoint is disabled or not. When this is set to False, the Grid endpoint is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The disable cannot be updated.

disable cannot be written.

subscribing_member

`subscribing_member`

The name of the Grid Member object that is serving Grid endpoint.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The subscribing_member cannot be updated.

subscribing_member cannot be written.

type

`type`

The Grid endpoint type.

Type

String.

Valid values are:

- TYPE_CISCO
- TYPE_DXL
- TYPE_RESTAPI

Search

The field is available for search via

- '=' (exact equality)

Notes

The type cannot be updated.

type cannot be written.

version

`version`

The Grid endpoint version.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	: = ~
comment	String	N	Y	N	: = ~
disable	Bool	N	Y	N	N/A
subscribing_member	String	N	Y	N	=
type	String	N	Y	N	=
version	String	N	Y	N	=

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Table of Contents

allnsgroup : All NS Group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - name
  - type
- Fields List

Previous topic

allendpoints : All Endpoints object.

Next topic

allrecords : AllRecords object.

allnsgroup : All NS Group object.

The All NS Groups object is a generic name server group object that provides information about all name server groups.

Object Reference

References to allnsgroup are object references.

The *name* part of the All NS Group object reference has the following components:

- Name of the name server group
- Type of the name server group

Example:
allnsgroup/ZG5zLm5zX2dyb3VwJG5zZzE:nsg1/AUTH

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, type**.

comment

`comment`

The comment for the name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

name

`name`

The name of the name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

type

`type`

The type of the name server group.

Type

String.

Valid values are:

- AUTH
- DELEGATION
- FORWARDING_MEMBER
- FORWARD_STUB_SERVER
- STUB_MEMBER

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	N	: = ~
name	String	N	Y	Y	: = ~
type	String	N	Y	Y	=

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Table of Contents

allrecords : AllRecords object.
- Object Reference
- Restrictions
- Fields
  - address
  - comment
  - creator
  - ddns_principal
  - ddns_protected
  - disable
  - dtc_obscured
  - name
  - reclaimable
  - record
  - ttl
  - type
  - view
  - zone
- Fields List

Previous topic

allnsgroup : All NS Group object.

Next topic

allrpzrecords : DNS All RPZ Records object.

allrecords : AllRecords object.

The allrecords object is a read-only synthetic object used to retrieve records that belong to a particular zone.

Since this is a synthetic object, it supports reading only by specifying search parameters, not by reference.

Object Reference

References to allrecords are object references. The *name* part of an allrecords object reference has the following components:

- The name of the record contained in the allrecords object.

Example:
allrecords/ZG5zLmJpbmRfY25h:12.0.10.0/12.0.30.0/arec1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, type, view, zone**.

address

`address`

The record address.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

comment

`comment`

The record comment.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- DYNAMIC
- STATIC

- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ddns_principal cannot be updated.

ddns_principal cannot be written.

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Search

The field is not available for search.

Notes

The ddns_protected cannot be updated.

ddns_protected cannot be written.

disable

disable

The disable value determines if the record is disabled or not. “False” means the record is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The disable cannot be updated.

disable cannot be written.

dtc_obscured

dtc_obscured

The specific LBDN record.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The dtc_obscured cannot be updated.

dtc_obscured cannot be written.

name

name

The name of the record.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

record

`record`

The record object, if supported by the WAPI. Otherwise, the value is "None".

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The record cannot be updated.

record cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for which the record is valid or being cached. The 32-bit unsigned integer represents the duration in seconds. Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The ttl cannot be updated.

ttl cannot be written.

type

`type`

The record type. When searching for an unspecified record type, the search is performed for all records. On retrieval, the appliance returns “UNSUPPORTED” for unsupported records.

Type

String.

Valid values are:

- ALL
- record:a
- record:aaaa
- record:cname
- record:dname
- record:host
- record:host_ipv4addr
- record:host_ipv6addr
- record:https

record:mx
- record:naptr
- record:ptr
- record:srv
- record:svcb
- record:txt
- record:unknown
- sharedrecord:a
- sharedrecord:aaaa
- sharedrecord:mx
- sharedrecord:srv
- sharedrecord:txt

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

view

`view`

Name of the DNS View in which the record resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

zone

Name of the zone in which the record resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone is part of the base object.

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
comment	String	N	Y	Y	: = ~
creator	String	N	Y	N	=
ddns_principal	String	N	Y	N	: = ~
ddns_protected	Bool	N	Y	N	N/A
disable	Bool	N	Y	N	N/A
dtc_obscured	String	N	Y	N	N/A
name	String	N	Y	Y	: = ~
reclaimable	Bool	N	Y	N	=
record	String	N	Y	N	N/A
ttl	Unsigned int	N	Y	N	N/A
type	String	N	Y	Y	=
view	String	N	Y	Y	=
zone	String	N	Y	Y	=

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Table of Contents

allrpzrecords : DNS All RPZ Records object.
- Object Reference
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  - alert_type
  - comment
  - disable
  - expiration_time
  - last_updated
  - name
  - record
  - rpz_rule
  - ttl
  - type
  - view
  - zone
- Fields List

Previous topic

allrecords : AllRecords object.

Next topic

approvalworkflow : The approval workflow object.

allrpzrecords : DNS All RPZ Records object.

A synthetic object used to return record object types that belong to a Response Policy Zone.

Object Reference

References to allrpzrecords are object references.

The *name* part of the allrpzrecords object reference has the following components:

- The name of the record associated with the allrpzrecords object.

Example: allrpzrecords/ZG5zLm5ldHdvcmtfdmlldyQxMTk/default:

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, type, view, zone**.

alert_type

`alert_type`

The alert type of the record associated with the allrpzrecords object.

Type

String.

Valid values are:

- DOMAIN_MATCH
- INFECTION_MATCH
- MALWARE_CALLBACK
- MALWARE_OBJECT
- WEB_INFECTION

Search

The field is not available for search.

Notes

The alert_type cannot be updated.

alert_type cannot be written.

comment

`comment`

The descriptive comment of the record associated with the allrpzrecords object.

Type

String.

Search

The field is not available for search.

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

disable

`disable`

The disable flag of the record associated with the allrpzrecords object (if present).

Type

Bool.

Search

The field is not available for search.

Notes

The disable cannot be updated.

disable cannot be written.

expiration_time

`expiration_time`

The expiration time of the record associated with the allrpzrecords object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The expiration_time cannot be updated.

expiration_time cannot be written.

last_updated

`last_updated`

The time when the record associated with the allrpzrecords object was last updated.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The last_updated cannot be updated.

last_updated cannot be written.

name

name

The name of the record associated with the allrpzrecords object. Note that this value might be different than the value of the name field for the associated record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

record

record

The record object associated with the allrpzrecords object.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The record cannot be updated.

record cannot be written.

rpz_rule

rpz_rule

The RPZ rule type of the record associated with the allrpzrecrods object.

Type

String.

Valid values are:

- BlockNoDataClientIpaddr
- BlockNoDataDomain
- BlockNoDataIpaddr
- BlockNxdomainClientIpaddr
- BlockNxdomainDomain
- BlockNxdomainIpaddr
- PassthruClientIpaddr
- PassthruDomain
- PassthruIpaddr
- SubstituteAAAARecord
- SubstituteARecord
- SubstituteCName
- SubstituteClientIPAddressCname
- SubstituteHTTPSRecord
- SubstituteIPAddressCname
- SubstituteIPv4AddressRecord
- SubstituteIPv6AddressRecord
- SubstituteMXRecord
- SubstituteNAPTRRecord
- SubstitutePTRRecord
- SubstituteSRVRecord
- SubstituteSVCBRecord
- SubstituteTXTRecord

Search

The field is available for search via

- '=' (exact equality)

Notes

The rpz_rule cannot be updated.

rpz_rule cannot be written.

ttl

`ttl`

The TTL value of the record associated with the allrpzrecords object (if present).

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The ttl cannot be updated.

ttl cannot be written.

type

`type`

The type of record associated with the allrpzrecords object. This is a descriptive string that identifies the record to which this allrpzrecords object refers. (Examples: ‘record:rpz:a’, ‘record:rpz:mx’, etc.)

Type

String.

Valid values are:

- record:rpz:a
- record:rpz:a:ipaddress
- record:rpz:aaaa
- record:rpz:aaaa:ipaddress
- record:rpz:cname
- record:rpz:cname:clientipaddress
- record:rpz:cname:ipaddress
- record:rpz:cname:ipaddressdn
- record:rpz:https
- record:rpz:mx
- record:rpz:naptr
- record:rpz:ptr
- record:rpz:srv
- record:rpz:svcb
- record:rpz:txt

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

view

`view`

The DNS view name of the record associated with the allrpzrecords object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The Response Policy Zone name of the record associated with the allrpzrecords object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone is part of the base object.

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
alert_type	String	N	Y	N	N/A
comment	String	N	Y	Y	N/A
disable	Bool	N	Y	N	N/A
expiration_time	Unsigned int	N	Y	N	N/A
last_updated	Unsigned int	N	Y	N	N/A
name	String	N	Y	Y	: = ~
record	String	N	Y	N	N/A
rpz_rule	String	N	Y	N	=
ttl	Unsigned int	N	Y	N	N/A
type	String	N	Y	Y	=
view	String	N	Y	Y	=
zone	String	N	Y	Y	=

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Table of Contents

approvalworkflow : The approval workflow object.
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- Fields List

Previous topic

allrpzrecords : DNS All RPZ Records object.

Next topic

authpolicy : The authentication policy object.

approvalworkflow : The approval workflow object.

The approval workflow object supports routing certain core network service tasks submitted by an admin group to another approval. You can add an admin group to an approval workflow and define the group as a submitter or an approver group. You can also define when and to whom e-mail notifications must be sent, and configure options such as whether the submitters or approvers must enter a comment or a ticket number when they submit tasks for approval. Approval workflows are useful when you want to control tasks that require reviews.

Object Reference

References to approvalworkflow are object references.

The *name* part of the approval workflow object reference has the following components:

- Submitter group name

Example (using _ref or UUID):

```
# Using _ref approvalworkflow/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group-1

# Using UUID approvalworkflow/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **approval_group, submitter_group, uuid**.

The following fields are required to create this object:

Field	Notes
approval_group	
submitter_group	

approval_group

`approval_group`

The approval administration group.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The approval_group is part of the base object.

approval_notify_to

`approval_notify_to`

The destination for approval task notifications.

Type

String.

Valid values are:

- APPROVER
- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

approved_notify_to

`approved_notify_to`

The destination for approved task notifications.

Type

String.

Valid values are:

- APPROVER

- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

approver_comment

`approver_comment`

The requirement for the comment when an approver approves a submitted task.

Type

String.

Valid values are:

- OPTIONAL
- REQUIRED
- UNUSED

Create

The default value is *UNUSED*.

Search

The field is not available for search.

enable_approval_notify

`enable_approval_notify`

Determines whether approval task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_approved_notify

`enable_approved_notify`

Determines whether approved task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_failed_notify

`enable_failed_notify`

Determines whether failed task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_notify_group

`enable_notify_group`

Determines whether e-mail notifications to admin group's e-mail address are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_notify_user

`enable_notify_user`

Determines whether e-mail notifications to an admin member's e-mail address are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_rejected_notify

`enable_rejected_notify`

Determines whether rejected task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_rescheduled_notify

`enable_rescheduled_notify`

Determines whether rescheduled task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_succeeded_notify

`enable_succeeded_notify`

Determines whether succeeded task notifications are enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

failed_notify_to

`failed_notify_to`

The destination for failed task notifications.

Type

String.

Valid values are:

- APPROVER
- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

rejected_notify_to

`rejected_notify_to`

The destination for rejected task notifications.

Type

String.

Valid values are:

- APPROVER
- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

rescheduled_notify_to

`rescheduled_notify_to`

The destination for rescheduled task notifications.

Type

String.

Valid values are:

- APPROVER
- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

submitter_comment

`submitter_comment`

The requirement for the comment when a submitter submits a task for approval.

Type

String.

Valid values are:

- OPTIONAL
- REQUIRED
- UNUSED

Create

The default value is *UNUSED*.

Search

The field is not available for search.

submitter_group

`submitter_group`

The submitter administration group.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The submitter_group is part of the base object.

The submitter_group cannot be updated.

succeeded_notify_to

`succeeded_notify_to`

The destination for succeeded task notifications.

Type

String.

Valid values are:

- APPROVER
- BOTH
- SUBMITTER

Create

The default value is *BOTH*.

Search

The field is not available for search.

ticket_number

`ticket_number`

The requirement for the ticket number when a submitter submits a task for approval.

Type

String.

Valid values are:

- OPTIONAL
- REQUIRED
- UNUSED

Create

The default value is *UNUSED*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
approval_group	String	Y	N	Y	=
approval_notify_to	String	N	N	N	N/A
approved_notify_to	String	N	N	N	N/A
approver_comment	String	N	N	N	N/A
enable_approval_notify	Bool	N	N	N	N/A
enable_approved_notify	Bool	N	N	N	N/A
enable_failed_notify	Bool	N	N	N	N/A
enable_notify_group	Bool	N	N	N	N/A
enable_notify_user	Bool	N	N	N	N/A
enable_rejected_notify	Bool	N	N	N	N/A
enable_rescheduled_notify	Bool	N	N	N	N/A
enable_succeeded_notify	Bool	N	N	N	N/A

extattrs	Extattr	N	N	N	ext
failed_notify_to	String	N	N	N	N/A
rejected_notify_to	String	N	N	N	N/A
rescheduled_notify_to	String	N	N	N	N/A
submitter_comment	String	N	N	N	N/A
submitter_group	String	Y	N	Y	=
succeeded_notify_to	String	N	N	N	N/A
ticket_number	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

authpolicy : The authentication policy object.
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  - auth_services
  - default_group
  - usage_type
  - uuid
- Fields List

Previous topic

approvalworkflow : The approval workflow object.

Next topic

awsrte53taskgroup : AWS Route53 task group object.

authpolicy : The authentication policy object.

The authentication policy defines which authentication server groups the appliance uses to authenticate admins and lists the local admin groups that map to the remote admin groups.

Object Reference

References to authpolicy are object references.

The *name* part of an authentication policy object has the following components:

- The 'authpolicy' string

Example (using _ref or UUID):

```
# Using _ref
authpolicy/ZG5zLm5ldHdvcmtfdmlldyQxMTk:authpolicy

# Using UUID
authpolicy/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **default_group, usage_type, uuid**.

admin_groups

admin_groups

List of names of local administration groups that are mapped to remote administration groups.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

auth_services

`auth_services`

The array that contains an ordered list of refs to localuser:authservice object, ldap_auth_service object, radius:authservice object, tacacsplus:authservice object, ad_auth_service object, certificate:authservice object. saml:authservice object,

Type

An array of the following objects: localuser:authservice, ldap_auth_service, radius:authservice, tacacsplus:authservice, ad_auth_service, certificate:authservice, saml:authservice.

This field supports nested return fields as described here.

Create

The default value is *The default is a list that contains the reference to localuser:authservice object*.

Search

The field is not available for search.

default_group

`default_group`

The default admin group that provides authentication in case no valid group is found.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The default_group is part of the base object.

usage_type

`usage_type`

Remote policies usage.

Type

String.

Valid values are:

- AUTH_ONLY
- FULL

Create

The default value is *FULL*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The usage_type is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
admin_groups	[String]	N	N	N	N/A
auth_services	obj	N	N	N	N/A
default_group	String	N	N	Y	=
usage_type	String	N	N	Y	=
uuid	String	N	Y	Y	: = ~

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awsrte53taskgroup : AWS Route53 task group object.
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  - consolidated_view
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  - grid_member
  - multiple_accounts_sync_policy
  - name
  - network_view
  - network_view_mapping_policy
  - role_arn
  - sync_child_accounts
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  - task_list
  - uuid
- Function Calls
  - task_control
- Fields List

Previous topic

authpolicy : The authentication policy object.

Next topic

awsuser : AWS User object.

awsrte53taskgroup : AWS Route53 task group object.

An AWS Route53 task group is a collection of one or more tasks allowing you to specify various zone filters to retrieve DNS zone data from AWS Route53 service using specified AWS user credentials. Grouping these tasks together helps organize related groups of sync data, enable/disable these and manage the grid member these run on.

Object Reference

References to awsrte53taskgroup are object references.

The *name* part of the name server group object reference has the following components:

- Name of the AWS Route53 task group

Example (using _ref or UUID):

```
# Using _ref
awsrte53taskgroup/ZG5zLmJpbmRfY25h:extdatagroup

# Using UUID
awsrte53taskgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **account_id, comment, disabled, name, sync_child_accounts, sync_status, uuid**.

The following fields are required to create this object:

Field	Notes
aws_account_ids_file_token	See the field description for more information

consolidated_view	See the field description for more information
grid_member	
name	
network_view	See the field description for more information

account_id

`account_id`

The AWS Account ID associated with this task group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The account_id is part of the base object.

The account_id cannot be updated.

account_id cannot be written.

accounts_list

`accounts_list`

The AWS Account IDs list associated with this task group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The accounts_list cannot be updated.

accounts_list cannot be written.

aws_account_ids_file_token

aws_account_ids_file_token

The AWS account IDs file's token.

Type

String.

Create

The aws_account_ids_file_token is required if multiple_accounts_sync_policy is set to UPLOAD_CHILDREN

Search

The field is available for search via

- '=' (exact equality)

comment

comment

Comment for the task group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

consolidate_zones

consolidate_zones

Indicates if all zones need to be saved into a single view.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidate_zones cannot be updated.

consolidated_view

`consolidated_view`

The name of the DNS view for consolidating zones.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The consolidated view is required if consolidate_zones is set and network_view_mapping_policy is DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidated_view cannot be updated.

disabled

`disabled`

Indicates if the task group is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The disabled is part of the base object.

grid_member

`grid_member`

Member on which the tasks in this task group will be run.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

multiple_accounts_sync_policy

`multiple_accounts_sync_policy`

Discover all child accounts or Upload child account ids to discover..

Type

String.

Valid values are:

- DISCOVER_CHILDREN
- NONE
- UPLOAD_CHILDREN

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of this AWS Route53 sync task group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the tenant's network view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The network view required if network_view_mapping_policy is set to DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view_mapping_policy

`network_view_mapping_policy`

The network view mapping policy.

Type

String.

Valid values are:

- AUTO_CREATE
- DIRECT

Create

The default value is *AUTO_CREATE*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view_mapping_policy cannot be updated.

role_arn

`role_arn`

Role ARN for syncing child accounts; maximum 128 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

sync_child_accounts

`sync_child_accounts`

Synchronizing child accounts is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_child_accounts is part of the base object.

sync_status

`sync_status`

Indicate the overall sync status of this task group.

Type

String.

Valid values are:

- ERROR
- NEW
- OK
- WARNING

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_status is part of the base object.

The sync_status cannot be updated.

sync_status cannot be written.

task_list

`task_list`

List of AWS Route53 tasks in this group.

Type

A/An AWS Route53 task struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

task_control

This function performs action on a task. Current support is for RUN action.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: "RUN"). This parameter is mandatory. The task control action to perform. Currently only start is supported.

cloud_dns_server_type (String. Valid values are: "AWS", "Azure"). This parameter is mandatory. This field contains the name of the cloud provider.

task_name (String.). This parameter is mandatory. This field contains the name of the task to perform this action on.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
account_id	String	N	Y	Y	=
accounts_list	String	N	Y	N	=
aws_account_ids_file_token	String	Y*	N	N	=
comment	String	N	N	Y	: = ~
consolidate_zones	Bool	N	N	N	=
consolidated_view	String	Y*	N	N	=
disabled	Bool	N	N	Y	=
grid_member	String	Y	N	N	=
multiple_accounts_sync_policy	String	N	N	N	=
name	String	Y	N	Y	: = ~
network_view	String	Y*	N	N	=
network_view_mapping_policy	String	N	N	N	=
role_arn	String	N	N	N	: = ~
sync_child_accounts	Bool	N	N	Y	=
sync_status	String	N	Y	Y	=
task_list	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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Table of Contents

awsuser : AWS User object.
- Object Reference
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  - account_id
  - govcloud_enabled
  - last_used
  - name
  - nios_user_name
  - secret_access_key
  - status
  - uuid
- Fields List

Previous topic

awsrte53taskgroup : AWS Route53 task group object.

Next topic

azurednstaskgroup : Azure DNS task group object.

awsuser : AWS User object.

An AWS user object represents a specific access key and secret key pair credentials of an AWS user.

Object Reference

References to awsuser are object references.

The *name* part of the name server group object reference has the following components:

- Access key ID of the AWS user

Example (using _ref or UUID):

```
# Using _ref
awsuser/ZG5zLmJpbmRfY25h:AKIAIY5E3YKTIIDGJKKQ

# Using UUID
awsuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **access_key_id, account_id, govcloud_enabled, name, uuid**.

The following fields are required to create this object:

Field	Notes
access_key_id	
account_id	
name	
secret_access_key	

access_key_id

`access_key_id`

The unique Access Key ID of this AWS user. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The access_key_id is part of the base object.

account_id

`account_id`

The AWS Account ID of this AWS user. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The account_id is part of the base object.

govcloud_enabled

`govcloud_enabled`

Indicates if gov cloud is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The govcloud_enabled is part of the base object.

last_used

`last_used`

The timestamp when this AWS user credentials was last used.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_used cannot be updated.

last_used cannot be written.

name

`name`

The AWS user name. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

nios_user_name

`nios_user_name`

The NIOS user name mapped to this AWS user. Maximum 64 characters.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

secret_access_key

`secret_access_key`

The Secret Access Key for the Access Key ID of this user. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

secret_access_key is not readable.

status

`status`

Indicate the validity status of this AWS user.

Type

String.

Valid values are:

- SUCCESSFUL
- UNSUCCESSFUL
- UNUSED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
access_key_id	String	Y	N	Y	=
account_id	String	Y	N	Y	=
govcloud_enabled	Bool	N	N	Y	=
last_used	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
nios_user_name	String	N	N	N	: = ~
secret_access_key	String	Y	N	N	N/A
status	String	N	Y	N	=
uuid	String	N	Y	Y	: = ~

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azurednstaskgroup : Azure DNS task group object.
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  - consolidate_zones
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  - disabled
  - grid_member
  - multiple_subscriptions_sync_policy
  - name
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  - subscriptions_list
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- Function Calls
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Previous topic

awsuser : AWS User object.

Next topic

azureuser : Azure User object.

azurednstaskgroup : Azure DNS task group object.

An Azure DNS task group is a collection of one or more tasks allowing you to specify various zone filters to retrieve DNS zone data from Azure DNS service using specified Azure user credentials. Grouping these tasks together helps organize related groups of sync data, enable/disable these and manage the grid member these run on.

Object Reference

References to azurednstaskgroup are object references.

The *name* part of the name server group object reference has the following components:

- Name of the Azure DNS task group

Example (using _ref or UUID):

```
# Using _ref
azurednstaskgroup/ZG5zLmJpbmRfY25h:extdatagroup

# Using UUID
azurednstaskgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disabled, name, sync_status, tenant_id, uuid**.

The following fields are required to create this object:

Field	Notes
azure_subscription_ids_file_token	See the field description for more information
consolidated_view	See the field description for more information
grid_member	
name	

network_view	See the field description for more information

azure_subscription_ids_file_token

`azure_subscription_ids_file_token`

The Azure Subscription IDs file's token.

Type

String.

Create

The azure_subscription_ids_file_token is required if multiple_subscriptions_sync_policy is set to UPLOAD_SUBSCRIPTIONS

Search

The field is available for search via

- '=' (exact equality)

comment

`comment`

Comment for the task group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

consolidate_zones

`consolidate_zones`

Indicates if all zones need to be saved into a single view.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidate_zones cannot be updated.

consolidated_view

`consolidated_view`

The name of the DNS view for consolidating zones.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The consolidated view is required if consolidate_zones is set and network_view_mapping_policy is DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidated_view cannot be updated.

disabled

`disabled`

Indicates if the task group is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The disabled is part of the base object.

grid_member

`grid_member`

Member on which the tasks in this task group will be run.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

multiple_subscriptions_sync_policy

`multiple_subscriptions_sync_policy`

Discover all child subscriptions or Upload child subscription ids to discover.

Type

String.

Valid values are:

- DISCOVER_SUBSCRIPTIONS
- UPLOAD_SUBSCRIPTIONS

Create

The default value is *DISCOVER_SUBSCRIPTIONS*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The multiple_subscriptions_sync_policy cannot be updated.

name

name

The name of this Azure DNS sync task group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

network_view

The name of the tenant's network view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The network view required if network_view_mapping_policy is set to DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view_mapping_policy

network_view_mapping_policy

The network view mapping policy.

Type

String.

Valid values are:

- AUTO_CREATE
- DIRECT

Create

The default value is *AUTO_CREATE*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view_mapping_policy cannot be updated.

subscriptions_list

`subscriptions_list`

The Azure Subscription IDs list associated with this task.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The subscriptions_list cannot be updated.

subscriptions_list cannot be written.

sync_status

`sync_status`

Indicate the overall sync status of this task group.

Type

String.

Valid values are:

- ERROR

NEW
- OK
- WARNING

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_status is part of the base object.

The sync_status cannot be updated.

sync_status cannot be written.

task_list

`task_list`

List of Azure DNS tasks in this group.

Type

A/An Azure DNS task struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

tenant_id

`tenant_id`

The Azure tenant ID associated with this task group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The tenant_id is part of the base object.

The tenant_id cannot be updated.

tenant_id cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

task_control

This function performs action on a task. Current support is for RUN action.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: "RUN"). This parameter is mandatory. The task control action to perform. Currently only start is supported.

cloud_dns_server_type (String. Valid values are: "AWS", "Azure"). This parameter is mandatory. This field contains the name of the cloud provider.

task_name (String.). This parameter is mandatory. This field contains the name of the task to perform this action on.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
azure_subscription_ids_file_token	String	Y*	N	N	=
comment	String	N	N	Y	: = ~
consolidate_zones	Bool	N	N	N	=
consolidated_view	String	Y*	N	N	=
disabled	Bool	N	N	Y	=
grid_member	String	Y	N	N	=
multiple_subscriptions_sync_policy	String	N	N	N	=
name	String	Y	N	Y	: = ~
network_view	String	Y*	N	N	=
network_view_mapping_policy	String	N	N	N	=
subscriptions_list	String	N	Y	N	=
sync_status	String	N	Y	Y	=
task_list	[struct]	N	N	N	N/A
tenant_id	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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Table of Contents

azureuser : Azure User object.
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  - client_secret_key
  - last_used
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  - status
  - tenant_id
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- Fields List

Previous topic

azurednstaskgroup : Azure DNS task group object.

Next topic

bfdtemplate : BFD template object.

azureuser : Azure User object.

An Azure user object represents a specific client id and client secret pair credentials of an Azure user.

Object Reference

References to azureuser are object references.

The *name* part of the name server group object reference has the following components:

- Client ID of the Azure user

Example (using _ref or UUID):

```
# Using _ref
azureuser/b25lLmF6dXJlX3VzZXIkMjg5N:289623f5-c9f1-42ab-b458-6f3130b92b01

# Using UUID
azureuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **client_id, name, tenant_id, uuid**.

The following fields are required to create this object:

Field	Notes
client_id	
client_secret_key	
name	
tenant_id	

client_id

`client_id`

The unique Client ID of this Azure user. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The client_id is part of the base object.

client_secret_key

`client_secret_key`

The Client Secret Key for the Client ID of this user. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

client_secret_key is not readable.

last_used

`last_used`

The timestamp when this Azure user credentials was last used.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_used cannot be updated.

last_used cannot be written.

name

`name`

The Azure user name. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

status

`status`

Indicate the validity status of this Azure user.

Type

String.

Valid values are:

- SUCCESSFUL
- UNSUCCESSFUL
- UNUSED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status cannot be updated.

status cannot be written.

tenant_id

`tenant_id`

The Azure Tenant ID of this Azure user. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The tenant_id is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
client_id	String	Y	N	Y	=
client_secret_key	String	Y	N	N	N/A
last_used	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
status	String	N	Y	N	=
tenant_id	String	Y	N	Y	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

bfdtemplate : BFD template object.
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  - min_rx_interval
  - min_tx_interval
  - name
  - uuid
- Fields List

Previous topic

azureuser : Azure User object.

Next topic

bulkhost : Bulkhost object.

bfdtemplate : BFD template object.

The Bidirectional Forwarding Detection (BFD) template contains a configuration of advanced BFD settings such as authentication and timer intervals. Fields - authentication_type, authentication_key, authentication_key_id are deprecated from NIOS 9.1.0 onwards.

Object Reference

References to bfdtemplate are object references. The *name* part of a BFD template object reference has the following components:

- Name of the BFD template

Example (using _ref or UUID):

```
# Using _ref
bfdtemplate/ZG5zLmJpbmRfY25h:templatename

# Using UUID
bfdtemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

detection_multiplier

`detection_multiplier`

The detection time multiplier value for BFD protocol. The negotiated transmit interval, multiplied by this value, provides the detection time for the receiving system in asynchronous BFD mode. Valid values are between 3 and 50.

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

min_rx_interval

`min_rx_interval`

The minimum receive time (in seconds) for BFD protocol. Valid values are between 50 and 9999. From NIOS 9.1.0 onwards, the BFD default value has been changed from 100 to 300.

Type

Unsigned integer.

Create

The default value is *300*.

Search

The field is not available for search.

min_tx_interval

`min_tx_interval`

The minimum transmission time (in seconds) for BFD protocol. Valid values are between 50 and 9999. From NIOS 9.1.0 onwards, the BFD default value has been changed from 100 to 300.

Type

Unsigned integer.

Create

The default value is *300*.

Search

The field is not available for search.

name

`name`

The name of the BFD template object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
detection_multiplier	Unsigned int	N	N	N	N/A
min_rx_interval	Unsigned int	N	N	N	N/A
min_tx_interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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bulkhost : Bulkhost object.
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  - disable
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  - end_addr
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  - policy
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  - start_addr
  - template_format
  - ttl
  - use_name_template
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  - uuid
  - view
  - zone
- Fields List

Previous topic

bfdtemplate : BFD template object.

Next topic

bulkhostnametemplate : The bulk host name template object.

bulkhost : Bulkhost object.

If you need to add a large number of hosts, you can have the Infoblox appliance add them as a group and automatically assign host names based on a range of IP addresses and name format applied to it. This group of hosts is referred to as a BulkHost. The Infoblox appliance uses the name space bulk-xx-xx-xx-xx for bulk host, so this name should not be used for CNAMEs and host aliases because doing so causes conflicts. Before adding a bulk host, make sure that no CNAMEs or host aliases uses this name.

Object Reference

References to bulkhost are object references.

The *name* part of the bulkhost object reference has the following components:

- name of the zone associated with a bulkhost object.
- prefix of the bulkhost object.
- start IP address of the bulkhost object.
- end IP address of the bulkhost object.

Example (using _ref or UUID):

```
# Using _ref bulkhost/ZG5zLm5ldHdvcmskMTEuMC4wLjAvOC8xMQ:zone.com/prefix/1.1.1.1/1.1.1.3

# Using UUID bulkhost/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, prefix, uuid**.

The following fields are required to create this object:

Field	Notes
end_addr	
prefix	
start_addr	
zone	

cloud_info

`cloud_info`

The cloud API related information.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

The descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

The disable flag of a DNS BulkHost record.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

dns_prefix

`dns_prefix`

The prefix, in punycode format, for the bulk host.

Type

String.

Search

The field is not available for search.

Notes

The dns_prefix cannot be updated.

dns_prefix cannot be written.

end_addr

`end_addr`

The last IP address in the address range for the bulk host.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name_template

`name_template`

The bulk host name template.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

name_template is associated with the field use_name_template (see use flag).

network_view

`network_view`

The network view associated with the bulk host view.

Type

String.

Search

The field is not available for search.

Notes

The network_view cannot be updated.

network_view cannot be written.

policy

`policy`

The hostname policy for records under the bulk host parent zone.

Type

String.

Search

The field is not available for search.

Notes

The policy cannot be updated.

policy cannot be written.

prefix

`prefix`

The prefix for the bulk host. The prefix is the name (or a series of characters) inserted at the beginning of each host name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The prefix is part of the base object.

reverse

`reverse`

The reverse flag of the BulkHost record.

Type

Bool.

Create

The default value is *True*.

Search

The field is available for search via

- '=' (exact equality)

start_addr

`start_addr`

The first IP address in the address range for the bulk host.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- ‘=’ (exact equality)

template_format

`template_format`

The bulk host name template format.

Type

String.

Search

The field is not available for search.

Notes

The template_format cannot be updated.

template_format cannot be written.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

ttl is associated with the field use_ttl (see use flag).

use_name_template

`use_name_template`

Use flag for: name_template

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- ‘=’ (exact equality)

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The view for the bulk host.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

zone

zone

The zone name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	=
dns_prefix	String	N	Y	N	N/A
end_addr	String	Y	N	N	=
extattrs	Extattr	N	N	N	ext
last_queried	Timestamp	N	Y	N	N/A
name_template	String	N	N	N	=
network_view	String	N	Y	N	N/A
policy	String	N	Y	N	N/A
prefix	String	Y	N	Y	= ~
reverse	Bool	N	N	N	=
start_addr	String	Y	N	N	=
template_format	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	=
use_name_template	Bool	N	N	N	=
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	N	= ~
zone	String	Y	N	N	= ~

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Table of Contents

bulkhostnametemplate : The bulk host name template object.
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  - template_format
  - template_name
  - uuid
- Fields List

Previous topic

bulkhost : Bulkhost object.

Next topic

cacertificate : CA Certificate object.

bulkhostnametemplate : The bulk host name template object.

The object manages the DNS bulk host name formats defined at the Grid level.

Object Reference

References to bulkhostnametemplate are object references.

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **is_grid_default, template_format, template_name, uuid**.

The following fields are required to create this object:

Field	Notes
template_format	
template_name	

is_grid_default

`is_grid_default`

True if this template is Grid default.

Type

Bool.

Search

The field is not available for search.

Notes

The is_grid_default is part of the base object.

The is_grid_default cannot be updated.

is_grid_default cannot be written.

pre_defined

`pre_defined`

True if this is a pre-defined template, False otherwise.

Type

Bool.

Search

The field is not available for search.

Notes

The pre_defined cannot be updated.

pre_defined cannot be written.

template_format

`template_format`

The format of bulk host name template. It should follow certain rules (please use Administration Guide as reference).

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The template_format is part of the base object.

template_name

`template_name`

The name of bulk host name template.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The template_name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
is_grid_default	Bool	N	Y	Y	N/A
pre_defined	Bool	N	Y	N	N/A
template_format	String	Y	N	Y	: = ~
template_name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

cacertificate : CA Certificate object.
- Object Reference
- Restrictions
- Fields
  - distinguished_name
  - issuer
  - serial
  - used_by
  - uuid
  - valid_not_after
  - valid_not_before
- Fields List

Previous topic

bulkhostnametemplate : The bulk host name template object.

Next topic

capacityreport : Grid member capacity report object.

cacertificate : CA Certificate object.

An CA Certificate object represents a CA certificate description.

Object Reference

References to cacertificate are object references. The *name* part of a cacertificate object reference has the following components:

- The certificate subject name.

Example:

```
# Using _ref
cacertificate/SW5mb2Jsb3ggQXBwbGlhbmNl:some_authority

# Using UUID
cacertificate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **distinguished_name, issuer, serial, used_by, uuid, valid_not_after, valid_not_before**.

distinguished_name

`distinguished_name`

The certificate subject name.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The distinguished_name is part of the base object.

The distinguished_name cannot be updated.

distinguished_name cannot be written.

issuer

`issuer`

The certificate issuer subject name.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The issuer is part of the base object.

The issuer cannot be updated.

issuer cannot be written.

serial

`serial`

The certificate serial number in hex format.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The serial is part of the base object.

The serial cannot be updated.

serial cannot be written.

used_by

`used_by`

Information about the CA certificate usage.

Type

String.

Search

The field is not available for search.

Notes

The used_by is part of the base object.

The used_by cannot be updated.

used_by cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_not_after

`valid_not_after`

The date after which the certificate becomes invalid.

Type

Timestamp.

Search

The field is not available for search.

Notes

The valid_not_after is part of the base object.

The valid_not_after cannot be updated.

valid_not_after cannot be written.

valid_not_before

`valid_not_before`

The date before which the certificate is not valid.

Type

Timestamp.

Search

The field is not available for search.

Notes

The valid_not_before is part of the base object.

The valid_not_before cannot be updated.

valid_not_before cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
distinguished_name	String	N	Y	Y	=
issuer	String	N	Y	Y	=
serial	String	N	Y	Y	=
used_by	String	N	Y	Y	N/A

uuid	String	N	Y	Y	: = ~
valid_not_after	Timestamp	N	Y	Y	N/A
valid_not_before	Timestamp	N	Y	Y	N/A

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Table of Contents

capacityreport : Grid member capacity report object.
- Object Reference
- Restrictions
- Fields
  - hardware_type
  - max_capacity
  - name
  - object_counts
  - percent_used
  - role
  - total_objects
- Fields List

Previous topic

cacertificate : CA Certificate object.

Next topic

captiveportal : Captive portal object.

capacityreport : Grid member capacity report object.

The capacity report object provides information about the object count, interface count, and other memory usage statistics for a Grid member.

Object Reference

References to capacityreport are object references.

The *name* part of a capacity report reference has the following components:

- The capacity report member host name.

Example:
capacityreport/ZG5zLm5ldHdvcmtfdmlldyQxMTk:member1.x

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, percent_used, role**.

hardware_type

`hardware_type`

Hardware type of a Grid member.

Type

String.

Search

The field is not available for search.

Notes

The hardware_type cannot be updated.

hardware_type cannot be written.

max_capacity

`max_capacity`

The maximum amount of capacity available for the Grid member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The max_capacity cannot be updated.

max_capacity cannot be written.

name

`name`

The Grid member name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

object_counts

`object_counts`

A list of instance counts for object types created on the Grid member.

Type

A/An Type count struct struct array.

Search

The field is not available for search.

Notes

The object_counts cannot be updated.

object_counts cannot be written.

percent_used

`percent_used`

The percentage of the capacity in use by the Grid member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The percent_used is part of the base object.

The percent_used cannot be updated.

percent_used cannot be written.

role

`role`

The Grid member role.

Type

String.

Search

The field is not available for search.

Notes

The role is part of the base object.

The role cannot be updated.

role cannot be written.

total_objects

`total_objects`

The total number of objects created by the Grid member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_objects cannot be updated.

total_objects cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
hardware_type	String	N	Y	N	N/A
max_capacity	Unsigned int	N	Y	N	N/A
name	String	N	Y	Y	=
object_counts	[struct]	N	Y	N	N/A
percent_used	Unsigned int	N	Y	Y	N/A
role	String	N	Y	Y	N/A
total_objects	Unsigned int	N	Y	N	N/A

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captiveportal : Captive portal object.
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  - enable_syslog_auth_failure
  - enable_syslog_auth_success
  - enable_user_type
  - encryption
  - files
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  - guest_custom_field1_required
  - guest_custom_field2_name
  - guest_custom_field2_required
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  - guest_custom_field4_name
  - guest_custom_field4_required
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  - listen_address_type
  - name
  - network_view
  - port
  - service_enabled
  - syslog_auth_failure_level
  - syslog_auth_success_level
  - uuid
  - welcome_message
- Fields List

Previous topic

capacityreport : Grid member capacity report object.

Next topic

certificate:authservice : Certificate authentication service object.

captiveportal : Captive portal object.

This object represents the captive portal configuration.

Object Reference

References to captiveportal are object references. The *name* part of a captive portal object reference has the following components:

- The name of the member on which captive portal is located.

Example:

```
# Using _ref
captiveportal/ZG5zLm5ldHdvcmtfdmlldyQxMTk:member.com

# Using UUID
captiveportal/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

authn_server_group

`authn_server_group`

The authentication server group assigned to this captive portal.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

company_name

`company_name`

The company name that appears in the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_syslog_auth_failure

`enable_syslog_auth_failure`

Determines if authentication failures are logged to syslog or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_syslog_auth_success

`enable_syslog_auth_success`

Determines if successful authentications are logged to syslog or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_user_type

`enable_user_type`

The type of user to be enabled for the captive portal.

Type

String.

Valid values are:

- AUTHENTICATED
- BOTH
- GUEST

Create

The default value is *AUTHENTICATED*.

Search

The field is not available for search.

encryption

`encryption`

The encryption the captive portal uses.

Type

String.

Valid values are:

- NONE
- SSL

Create

The default value is *NONE*.

Search

The field is not available for search.

files

`files`

The list of files associated with the captive portal.

Type

A/An Captive portal file struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

guest_custom_field1_name

`guest_custom_field1_name`

The name of the custom field that you are adding to the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

guest_custom_field1_required

`guest_custom_field1_required`

Determines if the custom field is required or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

guest_custom_field2_name

`guest_custom_field2_name`

The name of the custom field that you are adding to the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

guest_custom_field2_required

`guest_custom_field2_required`

Determines if the custom field is required or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

guest_custom_field3_name

`guest_custom_field3_name`

The name of the custom field that you are adding to the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

guest_custom_field3_required

`guest_custom_field3_required`

Determines if the custom field is required or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

guest_custom_field4_name

`guest_custom_field4_name`

The name of the custom field that you are adding to the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

guest_custom_field4_required

`guest_custom_field4_required`

Determines if the custom field is required or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

guest_email_required

`guest_email_required`

Determines if the email address of the guest is required or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

guest_first_name_required

`guest_first_name_required`

Determines if the first name of the guest is required or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

guest_last_name_required

`guest_last_name_required`

Determines if the last name of the guest is required or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

guest_middle_name_required

`guest_middle_name_required`

Determines if the middle name of the guest is required or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

guest_phone_required

`guest_phone_required`

Determines if the phone number of the guest is required or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

helpdesk_message

`helpdesk_message`

The helpdesk message that appears in the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

listen_address_ip

`listen_address_ip`

Determines the IP address on which the captive portal listens. Valid if listen address type is ‘IP’.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

listen_address_type

`listen_address_type`

Determines the type of the IP address on which the captive portal listens.

Type

String.

Valid values are:

- IP
- LAN2
- VIP

Create

The default value is *VIP*.

Search

The field is not available for search.

name

`name`

The hostname of the Grid member that hosts the captive portal.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

`network_view`

The network view of the captive portal.

Type

String.

Create

The default value is *default*.

Search

The field is not available for search.

port

`port`

The TCP port used by the Captive Portal service. The port is required when the Captive Portal service is enabled. Valid values are between 1 and 63999. Please note that setting the port number to 80 or 443 might impact performance.

Type

Unsigned integer.

Create

The default value is *4433*.

Search

The field is not available for search.

service_enabled

`service_enabled`

Determines if the captive portal service is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

syslog_auth_failure_level

`syslog_auth_failure_level`

The syslog level at which authentication failures are logged.

Type

String.

Valid values are:

- ALERT
- CRIT
- DEBUG
- EMERG
- ERR
- INFO
- NOTICE
- WARNING

Create

The default value is *INFO*.

Search

The field is not available for search.

syslog_auth_success_level

`syslog_auth_success_level`

The syslog level at which successful authentications are logged.

Type

String.

Valid values are:

- ALERT
- CRIT
- DEBUG
- EMERG
- ERR
- INFO
- NOTICE
- WARNING

Create

The default value is *INFO*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

welcome_message

`welcome_message`

The welcome message that appears in the guest registration page.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
authn_server_group	String	N	N	N	N/A
company_name	String	N	N	N	N/A
enable_syslog_auth_failure	Bool	N	N	N	N/A
enable_syslog_auth_success	Bool	N	N	N	N/A
enable_user_type	String	N	N	N	N/A
encryption	String	N	N	N	N/A
files	[struct]	N	N	N	N/A
guest_custom_field1_name	String	N	N	N	N/A
guest_custom_field1_required	Bool	N	N	N	N/A
guest_custom_field2_name	String	N	N	N	N/A
guest_custom_field2_required	Bool	N	N	N	N/A
guest_custom_field3_name	String	N	N	N	N/A
guest_custom_field3_required	Bool	N	N	N	N/A
guest_custom_field4_name	String	N	N	N	N/A
guest_custom_field4_required	Bool	N	N	N	N/A
guest_email_required	Bool	N	N	N	N/A
guest_first_name_required	Bool	N	N	N	N/A

guest_last_name_required	Bool	N	N	N	N/A
guest_middle_name_required	Bool	N	N	N	N/A
guest_phone_required	Bool	N	N	N	N/A
helpdesk_message	String	N	N	N	N/A
listen_address_ip	String	N	N	N	N/A
listen_address_type	String	N	N	N	N/A
name	String	N	Y	Y	=
network_view	String	N	N	N	N/A
port	Unsigned int	N	N	N	N/A
service_enabled	Bool	N	N	N	N/A
syslog_auth_failure_level	String	N	N	N	N/A
syslog_auth_success_level	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
welcome_message	String	N	N	N	N/A

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captiveportal : Captive portal object.

Next topic

csvimporttask : CSV Import task object.

certificate:authservice : Certificate authentication service object.

This object represents an certificate authentication service.

Object Reference

References to certificate:authservice are object references. The *name* part of the Certificate authentication service object reference has the following components:

- The name of the certificate authentication service object.

Example (using _ref or UUID):

```
# Using _ref
certificate:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID
certificate:authservice/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
ca_certificates	
name	

auto_populate_login

auto_populate_login

Specifies the value of the client certificate for automatically populating the NIOS login name.

Type

String.

Valid values are:

- AD_SUBJECT_ISSUER
- SAN_EMAIL
- SAN_UPN
- SERIAL_NUMBER
- S_DN_CN
- S_DN_EMAIL

Create

The default value is *S_DN_CN*.

Search

The field is not available for search.

ca_certificates

`ca_certificates`

The list of CA certificates.

Type

A/An cacertificate object array.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is not available for search.

comment

`comment`

The descriptive comment for the certificate authentication service.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disabled

`disabled`

Determines if this certificate authentication service is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_password_request

`enable_password_request`

Determines if username/password authentication together with client certificate authentication is enabled or disabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_remote_lookup

`enable_remote_lookup`

Determines if the lookup for user group membership information on remote services is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

max_retries

`max_retries`

The number of validation attempts before the appliance contacts the next responder.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

name

`name`

The name of the certificate authentication service.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

ocsp_check

`ocsp_check`

Specifies the source of OCSP settings.

Type

String.

Valid values are:

- AIA_AND_MANUAL
- AIA_ONLY
- DISABLED
- MANUAL

Create

The default value is *MANUAL*.

Search

The field is not available for search.

ocsp_responders

`ocsp_responders`

An ordered list of OCSP responders that are part of the certificate authentication service.

Type

A/An OCSP Responder struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

recovery_interval

`recovery_interval`

The period of time the appliance waits before it attempts to contact a responder that is out of service again. The value must be between 1 and 600 seconds.

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

remote_lookup_password

`remote_lookup_password`

The password for the service account.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

remote_lookup_password is not readable.

remote_lookup_service

`remote_lookup_service`

The service that will be used for remote lookup.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

remote_lookup_username

`remote_lookup_username`

The username for the service account.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

response_timeout

`response_timeout`

The validation timeout period in milliseconds.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

trust_model

`trust_model`

The OCSP trust model.

Type

String.

Valid values are:

- DELEGATED
- DIRECT

Create

The default value is *DIRECT*.

Search

The field is not available for search.

user_match_type

`user_match_type`

Specifies how to search for a user.

Type

String.

Valid values are:

- AUTO_MATCH
- DIRECT_MATCH

Create

The default value is *AUTO_MATCH*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

test_ocsp_responder_settings

Use this function to test OCSP responder configuration.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

certificate_auth_service (String.) The certificate authentication service name.

ocsp_responder (A/An OCSP Responder struct.). This parameter is mandatory. The OCSP responder to test.

Output fields

result (String. Valid values are: “CANNOT_RESOLVE_FQDN”, “CANNOT_CONNECT”, “FAILED_TEST”, “TEST_OK”) The result of the OCSP responder settings testing.

Fields List

Field	Type	Req	R/O	Base	Search
auto_populate_login	String	N	N	N	N/A
ca_certificates	[obj]	Y	N	N	N/A
comment	String	N	N	N	: = ~
disabled	Bool	N	N	N	N/A
enable_password_request	Bool	N	N	N	N/A
enable_remote_lookup	Bool	N	N	N	N/A
max_retries	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
ocsp_check	String	N	N	N	N/A
ocsp_responders	[struct]	N	N	N	N/A
recovery_interval	Unsigned int	N	N	N	N/A
remote_lookup_password	String	N	N	N	N/A
remote_lookup_service	String	N	N	N	N/A
remote_lookup_username	String	N	N	N	N/A
response_timeout	Unsigned int	N	N	N	N/A
trust_model	String	N	N	N	N/A
user_match_type	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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csvimporttask : CSV Import task object.
- Object Reference
- Restrictions
- Fields
  - action
  - admin_name
  - end_time
  - file_name
  - file_size
  - import_id
  - lines_failed
  - lines_processed
  - lines_warning
  - on_error
  - operation
  - separator
  - start_time
  - status
  - update_method
  - uuid
- Function Calls
  - stop
- Fields List

Previous topic

certificate:authservice : Certificate authentication service object.

Next topic

datacollectioncluster : DATA collection cluster object.

csvimporttask : CSV Import task object.

This object represents a CSV import task, if the task was created but not started by an import operation, it can be started by modifying it and assigning the value 'START' to the 'action' field.

Object Reference

References to csvimporttask are object references. The *name* part of a csvimporttask object reference has the following components:

- The import id.

Example (using _ref or UUID):

```
# Using _ref
csvimporttask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1

# Using UUID
csvimporttask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **admin_name, end_time, file_name, file_size, import_id, lines_failed, lines_processed, lines_warning, on_error, operation, separator, start_time, status, update_method, uuid**.

action

`action`

The action to execute.

Type

String.

Valid values are:

- SAVE
- START

Create

The default value is *START*.

Search

The field is not available for search.

Notes

action is not readable.

admin_name

`admin_name`

The login name of the administrator.

Type

String.

Search

The field is not available for search.

Notes

The admin_name is part of the base object.

The admin_name cannot be updated.

admin_name cannot be written.

end_time

`end_time`

The end time of this import operation.

Type

Timestamp.

Search

The field is not available for search.

Notes

The end_time is part of the base object.

The end_time cannot be updated.

end_time cannot be written.

file_name

`file_name`

The name of the file used for the import operation.

Type

String.

Search

The field is not available for search.

Notes

The file_name is part of the base object.

The file_name cannot be updated.

file_name cannot be written.

file_size

`file_size`

The size of the file used for the import operation.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The file_size is part of the base object.

The file_size cannot be updated.

file_size cannot be written.

import_id

`import_id`

The ID of the current import task.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The import_id is part of the base object.

The import_id cannot be updated.

import_id cannot be written.

lines_failed

`lines_failed`

The number of lines that encountered an error.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The lines_failed is part of the base object.

The lines_failed cannot be updated.

lines_failed cannot be written.

lines_processed

`lines_processed`

The number of lines that have been processed.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The lines_processed is part of the base object.

The lines_processed cannot be updated.

lines_processed cannot be written.

lines_warning

`lines_warning`

The number of lines that encountered a warning.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The lines_warning is part of the base object.

The lines_warning cannot be updated.

lines_warning cannot be written.

on_error

`on_error`

The action to take when an error is encountered.

Type

String.

Valid values are:

- CONTINUE
- STOP

Create

The default value is *STOP*.

Search

The field is not available for search.

Notes

The on_error is part of the base object.

operation

`operation`

The operation to execute.

Type

String.

Valid values are:

- CUSTOM
- DELETE
- INSERT
- REPLACE
- UPDATE

Create

The default value is *INSERT*.

Search

The field is not available for search.

Notes

The operation is part of the base object.

separator

`separator`

The separator to be used for the data in the CSV file.

Type

String.

Valid values are:

- COMMA
- SEMICOLON
- SPACE
- TAB

Search

The field is not available for search.

Notes

The separator is part of the base object.

The separator cannot be updated.

separator cannot be written.

start_time

`start_time`

The start time of the import operation.

Type

Timestamp.

Search

The field is not available for search.

Notes

The start_time is part of the base object.

The start_time cannot be updated.

start_time cannot be written.

status

`status`

The status of the import operation

Type

String.

Valid values are:

- COMPLETED
- FAILED
- PENDING
- RUNNING
- STOPPED
- TEST_COMPLETED
- TEST_FAILED
- TEST_RUNNING

- TEST_STOPPED
- UPLOADED

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

update_method

`update_method`

The update method to be used for the operation.

Type

String.

Valid values are:
- MERGE
- OVERRIDE

Create

The default value is *OVERRIDE*.

Search

The field is not available for search.

Notes

The update_method is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

stop

This function stops the current CSV import task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
action	String	N	N	N	N/A
admin_name	String	N	Y	Y	N/A
end_time	Timestamp	N	Y	Y	N/A
file_name	String	N	Y	Y	N/A
file_size	Unsigned int	N	Y	Y	N/A
import_id	Unsigned int	N	Y	Y	=
lines_failed	Unsigned int	N	Y	Y	N/A
lines_processed	Unsigned int	N	Y	Y	N/A
lines_warning	Unsigned int	N	Y	Y	N/A
on_error	String	N	N	Y	N/A
operation	String	N	N	Y	N/A
separator	String	N	Y	Y	N/A
start_time	Timestamp	N	Y	Y	N/A

status	String	N	Y	Y	N/A
update_method	String	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

datacollectioncluster : DATA collection cluster object.
- Object Reference
- Restrictions
- Fields
  - enable_registration
  - name
  - uuid
- Fields List

Previous topic

csvimporttask : CSV Import task object.

Next topic

db_objects : The DB Objects object.

datacollectioncluster : DATA collection cluster object.

This object represents data collection cluster

Object Reference

References to datacollectioncluster are object references.

The *name* part of the data collection cluster object reference has the following components:

- The name of the data collection cluster object..

Example (using _ref or UUID):

```
# Using _ref
“datacollectioncluster/b25lLmRhdGFjb2xsZWN0b3JfY2x1c3RlciQw”

# Using UUID
“datacollectioncluster/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Delete
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

enable_registration

`enable_registration`

Enable/disable new registration requests

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

name

`name`

Display name for cluster

Type

String.

Search

The field is not available for search.

Notes

The name cannot be updated.

name cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
enable_registration	Bool	N	N	N	N/A

name	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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db_objects : The DB Objects object.
- Note
- Object Reference
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  - exclude_deleted
  - object_types
  - start_sequence_id
- Fields List
- Search-only Fields List

Previous topic

datacollectioncluster : DATA collection cluster object.

Next topic

dbsnapshot : The DBSnapshot WAPI object.

db_objects : The DB Objects object.

The DB Objects object is used to search for changes in objects of the Infoblox Grid.

Note

You must specify the parameter start_sequence_id for incremental sync searches. Absence of start_sequence_id triggers reading records with revision_id greater than zero. All object fields are returned when you set all_object_types_supported_in_version search field, but do not specify the _return_fields option.

Object Reference

References to db_objects are object references.

The *name* part of the DB Objects object reference has the following components:

- The sequence id.

Example:

```
# Using _ref
db_objects/Li51c2VyX3Byb2ZpbGUkMjI:322:32

# Using UUID or unique_id
db_objects/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **last_sequence_id, object, object_type, unique_id**.

last_sequence_id

`last_sequence_id`

The last returned sequence ID.

Type

String.

Search

The field is not available for search.

Notes

The last_sequence_id is part of the base object.

The last_sequence_id cannot be updated.

last_sequence_id cannot be written.

object

`object`

The record object when supported by WAPI. Otherwise, the value is “None”.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The object is part of the base object.

The object cannot be updated.

object cannot be written.

object_type

object_type

The object type. This is undefined if the object is not supported.

Type

String.

Search

The field is not available for search.

Notes

The object_type is part of the base object.

The object_type cannot be updated.

object_type cannot be written.

unique_id

unique_id

The unique ID of the requested object.

Type

String.

Search

The field is not available for search.

Notes

The unique_id is part of the base object.

The unique_id cannot be updated.

unique_id cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

all_object_types_supported_in_version

all_object_types_supported_in_version

You can use this search parameter to search for all objects

supported in the specified WAPI. You must specify only one of the following search parameters: object_types, all_object_types_supported_in_version.

Type

String.

Valid values are:

- 2.13.7
- 2.5
- 2.7

Search

The field is available for search via

- '=' (exact equality)

Notes

all_object_types_supported_in_version is a search-only field.

exclude_deleted

`exclude_deleted`

Determines whether deleted objects must be excluded or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

exclude_deleted is a search-only field.

object_types

`object_types`

The object types to search for. You must specify only one of the following search parameters: object_types, all_object_types_supported_in_version.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

object_types is a search-only field.

start_sequence_id

`start_sequence_id`

The start sequence ID to search for.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

start_sequence_id is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
last_sequence_id	String	N	Y	Y	N/A
object	String	N	Y	Y	N/A
object_type	String	N	Y	Y	N/A
unique_id	String	N	Y	Y	N/A

Search-only Fields List

Field	Type	Search
all_object_types_supported_in_version	String	=
exclude_deleted	Bool	=
object_types	String	=
start_sequence_id	String	=

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dbsnapshot : The DBSnapshot WAPI object.
- Object Reference
- Restrictions
- Fields
  - comment
  - timestamp
  - uuid
- Function Calls
  - rollback_db_snapshot
  - save_db_snapshot
- Fields List

Previous topic

db_objects : The DB Objects object.

Next topic

ddns:principalcluster : DDNS Principal Cluster object.

dbsnapshot : The DBSnapshot WAPI object.

The object provides information about the OneDB snapshot, the last time it was taken and the descriptive comment.

Object Reference

References to dbsnapshot are object references.

Example (using _ref or UUID):

```
# Using _ref dbsnapshot/b25lLmRiX3NuYXBzaG90JDA:1465912167/Test%20snapshot

# Using UUID dbsnapshot/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, timestamp, uuid**.

comment

`comment`

The descriptive comment.

Type

String.

Search

The field is not available for search.

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

timestamp

`timestamp`

The time when the latest OneDB snapshot was taken in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The timestamp is part of the base object.

The timestamp cannot be updated.

timestamp cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

rollback_db_snapshot

This method rollback OneDB snapshot if one exists.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

save_db_snapshot

This method takes OneDB snapshot

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

comment (String.). This parameter is mandatory. The descriptive comment.

Output fields

_ref (String.) The ref to created dbsnapshot object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	Y	Y	Y	N/A
timestamp	Timestamp	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~

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ddns:principalcluster : DDNS Principal Cluster object.
- Object Reference
- Restrictions
- Fields
  - comment
  - group
  - name
  - principals
  - uuid
- Fields List

Previous topic

dbsnapshot : The DBSnapshot WAPI object.

Next topic

ddns:principalcluster:group : DDNS Principal Cluster Group object.

ddns:principalcluster : DDNS Principal Cluster object.

The DDNS Principal Cluster object represents a set of principals such that any principal in a DDNS Principal Cluster can update records created by any other principal in the same cluster.

Object Reference

References to ddns:principalcluster are object references.

The *name* part of the DDNS Principal Cluster object reference has the following components:

- Name of the DDNS Principal Cluster
- Name of the DDNS Principal Cluster Group

Example (using _ref or UUID):

```
# Using _ref
ddnsprincipalcluster/ZG5zLmJpbmRfY25h:ddnsprincipalcluster1

# Using UUID
ddnsprincipalcluster/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, group, name, principals, uuid**.

The following fields are required to create this object:

Field	Notes
group	
name	

comment

`comment`

Comment for the DDNS Principal Cluster.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

group

`group`

The DDNS Principal cluster group name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The group is part of the base object.

name

`name`

The name of this DDNS Principal Cluster.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

principals

`principals`

The list of equivalent principals.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The principals is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
group	String	Y	N	Y	=
name	String	Y	N	Y	: = ~
principals	[String]	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

ddns:principalcluster:group : DDNS Principal Cluster Group object.
- Object Reference
- Restrictions
- Fields
  - clusters
  - comment
  - name
  - uuid
- Fields List

Previous topic

ddns:principalcluster : DDNS Principal Cluster object.

Next topic

deleted_objects : The Deleted Objects object.

ddns:principalcluster:group : DDNS Principal Cluster Group object.

The DDNS Principal Cluster Group object represents a set of DDNS Principal Clusters. A single group can be active at any time.

Object Reference

References to ddns:principalcluster:group are object references.

The *name* part of the DDNS Principal Cluster Group object reference has the following components:

- Name of the DDNS Principal Cluster Group

Example (using _ref or UUID):

```
# Using _ref
ddns:principalcluster:group/ZG5zLmJpbmRfY25h:group1

# Using UUID
ddns:principalcluster:group/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

clusters

`clusters`

The list of equivalent DDNS principal clusters.

Type

A/An ddns:principalcluster object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The clusters cannot be updated.

clusters cannot be written.

comment

`comment`

Comment for the DDNS Principal Cluster Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

name

`name`

The name of this DDNS Principal Cluster Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
clusters	[obj]	N	Y	N	N/A
comment	String	N	N	Y	: = ~
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

deleted_objects : The Deleted Objects object.
- Object Reference
- Restrictions
- Fields
  - object_type
- Fields List

Previous topic

ddns:principalcluster:group : DDNS Principal Cluster Group object.

Next topic

dhcp:statistics : DHCP Statistics object.

deleted_objects : The Deleted Objects object.

The Deleted Objects object is used to display information about deleted objects. You can retrieve it from the appliance only as a part of DB Objects response.

Object Reference

This object does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Read (retrieve)
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **object_type**.

object_type

`object_type`

The object type of the deleted object. This is undefined if the object is not supported.

Type

String.

Search

The field is not available for search.

Notes

The object_type is part of the base object.

The object_type cannot be updated.

object_type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
object_type	String	N	Y	Y	N/A

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dhcp:statistics : DHCP Statistics object.
- Object Reference
- Restrictions
- Fields
  - dhcp_utilization
  - dhcp_utilization_status
  - dynamic_hosts
  - static_hosts
  - total_hosts
- Search-only Fields
  - statistics_object
- Fields List
- Search-only Fields List

Previous topic

deleted_objects : The Deleted Objects object.

Next topic

dhcpfailover : DHCP Failover Association object.

dhcp:statistics : DHCP Statistics object.

DHCP Statistics object is used to display information about DHCP utilization status, number of static and dynamic hosts, overall DHCP utilization in percentage. DHCP Statistics object supports references on following objects: network, range, sharednetwork, msserver:dhcp, member:dhcpproperties.

Note that get by reference is not allowed for this object. Search result returns the dhcp:statistics object itself (not a list).

Note that read by reference is not supported.

Object Reference

References to dhcp:statistics are object references. There is no *name* part in a DHCP statistics object reference.

Example: dhcp:statistics/5ldHdvcmskMTEuMC4

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dhcp_utilization, dhcp_utilization_status, dynamic_hosts, static_hosts, total_hosts**.

dhcp_utilization

dhcp_utilization

The percentage of the total DHCP utilization of DHCP objects multiplied by 1000. This is the percentage of the total number of available IP addresses belonging to the object versus the total number of all IP addresses in object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization is part of the base object.

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

`dhcp_utilization_status`

A string describing the utilization level of the DHCP object.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status is part of the base object.

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the DHCP object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts is part of the base object.

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

static_hosts

`static_hosts`

The number of static DHCP addresses configured in the DHCP object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts is part of the base object.

The static_hosts cannot be updated.

static_hosts cannot be written.

total_hosts

`total_hosts`

The total number of DHCP addresses configured in the DHCP object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts is part of the base object.

The total_hosts cannot be updated.

total_hosts cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

statistics_object

`statistics_object`

The DHCP object to browse DHCP statistics for.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

statistics_object is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
dhcp_utilization	Unsigned int	N	Y	Y	N/A
dhcp_utilization_status	String	N	Y	Y	N/A
dynamic_hosts	Unsigned int	N	Y	Y	N/A
static_hosts	Unsigned int	N	Y	Y	N/A
total_hosts	Unsigned int	N	Y	Y	N/A

Search-only Fields List

Field	Type	Search
statistics_object	String	=

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dhcpfailover : DHCP Failover Association object.

DHCP failover is a protocol designed to allow a backup DHCP server to take over for a main server if the main server is taken off the network for any reason. DHCP failover can be used to configure two DHCP servers to operate as a redundant pair.

Object Reference

References to dhcpfailover are object references.

The *name* part of the dhcpfailover object reference has the following components:

- Name of the DHCP Failover Association object
- Address of the primary Microsoft Server object, if you create failover association between two Microsoft Servers

Example (using _ref or UUID):

```
# Using _ref
dhcpfailover/ZG5zLm5ldHdvcmtfdmlldyQxMTk:dhcpf1

# Using UUID
dhcpfailover/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
ms_failover_partner	See the field description for more information
ms_server	See the field description for more information
name	

primary	See the field description for more information
primary_server_type	See the field description for more information
secondary	See the field description for more information
secondary_server_type	See the field description for more information

association_type

`association_type`

The value indicating whether the failover association is Microsoft or Grid based. This is a read-only attribute.

Type

String.

Valid values are:

- GRID
- MS

Search

The field is not available for search.

Notes

The association_type cannot be updated.

association_type cannot be written.

comment

`comment`

A descriptive comment about a DHCP failover object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

failover_port

`failover_port`

Determines the TCP port on which the server should listen for connections from its failover peer. Valid values are between 1 and 63999.

Type

Unsigned integer.

Create

The default value is *647*.

Search

The field is not available for search.

Notes

failover_port is associated with the field use_failover_port (see use flag).

load_balance_split

`load_balance_split`

A load balancing split value of a DHCP failover object. Specify the value of the maximum load balancing delay in a 8-bit integer format (range from 0 to 256).

Type

Unsigned integer.

Create

The default value is *128*.

Search

The field is not available for search.

max_client_lead_time

`max_client_lead_time`

The maximum client lead time value of a DHCP failover object. Specify the value of the maximum client lead time in a 32-bit integer format (range from 0 to 4294967295) that represents the duration in seconds. Valid values are between 1 and 4294967295.

Type

Unsigned integer.

Create

The default value is *3600*.

Search

The field is not available for search.

max_load_balance_delay

`max_load_balance_delay`

The maximum load balancing delay value of a DHCP failover object. Specify the value of the maximum load balancing delay in a 32-bit integer format (range from 0 to 4294967295) that represents the duration in seconds. Valid values are between 1 and 4294967295.

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

max_response_delay

`max_response_delay`

The maximum response delay value of a DHCP failover object. Specify

the value of the maximum response delay in a 32-bit integer format (range from 0 to 4294967295) that represents the duration in seconds. Valid values are between 1 and 4294967295.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

max_unacked_updates

`max_unacked_updates`

The maximum number of unacked updates value of a DHCP failover object. Specify the value of the maximum number of unacked updates in a 32-bit integer format (range from 0 to 4294967295) that represents the number of messages. Valid values are between 1 and 4294967295.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

ms_association_mode

`ms_association_mode`

The value that indicates whether the failover association is read-write or read-only. This is a read-only attribute.

Type

String.

Valid values are:

- RO
- RW

Search

The field is not available for search.

Notes

The ms_association_mode cannot be updated.

ms_association_mode cannot be written.

ms_enable_authentication

`ms_enable_authentication`

Determines if the authentication for the failover association is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ms_enable_switchover_interval

`ms_enable_switchover_interval`

Determines if the switchover interval is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_failover_mode

`ms_failover_mode`

The mode for the failover association.

Type

String.

Valid values are:

- HOTSTANDBY
- LOADBALANCE

Create

The default value is *LOADBALANCE*.

Search

The field is not available for search.

ms_failover_partner

`ms_failover_partner`

Failover partner defined in the association with the Microsoft Server.

Type

String.

Create

The field is required only when creating a DHCP failover object associated with a Microsoft Server.

Search

The field is not available for search.

Notes

The ms_failover_partner cannot be updated.

ms_hotstandby_partner_role

`ms_hotstandby_partner_role`

The partner role in the case of HotStandby.

Type

String.

Valid values are:

- ACTIVE
- PASSIVE

Create

The default value is *empty*.

Search

The field is not available for search.

ms_is_conflict

`ms_is_conflict`

Determines if the matching Microsoft failover association (if any) is in synchronization (False) or not (True). If there is no matching failover

association the returned values is False. This is a read-only attribute.

Type

Bool.

Search

The field is not available for search.

Notes

The ms_is_conflict cannot be updated.

ms_is_conflict cannot be written.

ms_previous_state

`ms_previous_state`

The previous failover association state. This is a read-only attribute.

Type

String.

Valid values are:

- COMMUNICATION_INT
- CONFLICT_DONE
- INIT
- NORMAL
- NO_STATE
- PARTNER_DOWN
- POTENTIAL_CONFLICT
- RECOVER
- RECOVER_DONE
- RECOVER_WAIT
- RESOLUTION_INIT
- STARTUP

Search

The field is not available for search.

Notes

The ms_previous_state cannot be updated.

ms_previous_state cannot be written.

ms_server

`ms_server`

The primary Microsoft Server.

Type

String.

Create

The field is required only when creating a DHCP failover object associated with a Microsoft Server.

Search

The field is not available for search.

Notes

The ms_server cannot be updated.

ms_shared_secret

`ms_shared_secret`

The failover association authentication. This is a write-only attribute.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ms_shared_secret is not readable.

ms_state

`ms_state`

The failover association state. This is a read-only attribute.

Type

String.

Valid values are:

- COMMUNICATION_INT
- CONFLICT_DONE
- INIT
- NORMAL
- NO_STATE
- PARTNER_DOWN
- POTENTIAL_CONFLICT
- RECOVER
- RECOVER_DONE
- RECOVER_WAIT

- RESOLUTION_INIT
- STARTUP

Search

The field is not available for search.

Notes

The ms_state cannot be updated.

ms_state cannot be written.

ms_switchover_interval

`ms_switchover_interval`

The time (in seconds) that DHCPv4 server will wait before transitioning the server from the COMMUNICATION-INT state to PARTNER-DOWN state.

Type

Unsigned integer.

Create

The default value is *3600*.

Search

The field is not available for search.

Notes

ms_switchover_interval is associated with the field use_ms_switchover_interval (see use flag).

name

`name`

The name of a DHCP failover object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The name is part of the base object.

primary

`primary`

The primary server of a DHCP failover object.

Type

String.

Create

The field is required only when creating a DHCP failover object associated with the Grid.

Search

The field is not available for search.

primary_server_type

`primary_server_type`

The type of the primary server of DHCP Failover association object.

Type

String.

Valid values are:

- EXTERNAL
- GRID

Create

The field is required only when creating a DHCP failover object associated with the Grid.

Search

The field is not available for search.

primary_state

`primary_state`

The primary server status of a DHCP failover object.

Type

String.

Valid values are:

- COMMUNICATIONS_INTERRUPTED
- CONFLICT_DONE
- NORMAL
- PARTNER_DOWN
- PAUSED
- POTENTIAL_CONFLICT
- RECOVER
- RECOVER_DONE
- RECOVER_WAIT
- RESOLUTION_INTERRUPTED
- SHUTDOWN
- START
- UNKNOWN

Search

The field is not available for search.

Notes

The primary_state cannot be updated.

primary_state cannot be written.

recycle_leases

`recycle_leases`

Determines if the leases are kept in recycle bin until one week after expiration or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

secondary

`secondary`

The secondary server of a DHCP failover object.

Type

String.

Create

The field is required only when creating a DHCP failover object associated with the Grid.

Search

The field is not available for search.

secondary_server_type

`secondary_server_type`

The type of the secondary server of DHCP Failover association object.

Type

String.

Valid values are:

- EXTERNAL
- GRID

Create

The field is required only when creating a DHCP failover object associated with the Grid.

Search

The field is not available for search.

secondary_state

`secondary_state`

The secondary server status of a DHCP failover object.

Type

String.

Valid values are:

- COMMUNICATIONS_INTERRUPTED
- CONFLICT_DONE
- NORMAL
- PARTNER_DOWN
- PAUSED
- POTENTIAL_CONFLICT
- RECOVER
- RECOVER_DONE
- RECOVER_WAIT
- RESOLUTION_INTERRUPTED
- SHUTDOWN
- START
- UNKNOWN

Search

The field is not available for search.

Notes

The secondary_state cannot be updated.

secondary_state cannot be written.

use_failover_port

`use_failover_port`

Use flag for: failover_port

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_switchover_interval

`use_ms_switchover_interval`

Use flag for: ms_switchover_interval

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

set_dhcp_failover_partner_down

Use this function to set DHCP failover to the Partner Down state.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

peer_type (String. Valid values are: "PRIMARY", "SECONDARY"). This parameter is mandatory. The DHCP failover peer type.

Output fields

None

set_dhcp_failover_secondary_recovery

Use this function to force the Recovery state of the secondary failover peer.

This function does not support multiple object matches when called as

part of an atomic insertion operation.

Input fields

None

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
association_type	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
failover_port	Unsigned int	N	N	N	N/A
load_balance_split	Unsigned int	N	N	N	N/A
max_client_lead_time	Unsigned int	N	N	N	N/A
max_load_balance_delay	Unsigned int	N	N	N	N/A
max_response_delay	Unsigned int	N	N	N	N/A
max_unacked_updates	Unsigned int	N	N	N	N/A
ms_association_mode	String	N	Y	N	N/A
ms_enable_authentication	Bool	N	N	N	N/A
ms_enable_switchover_interval	Bool	N	N	N	N/A
ms_failover_mode	String	N	N	N	N/A
ms_failover_partner	String	Y*	N	N	N/A
ms_hotstandby_partner_role	String	N	N	N	N/A
ms_is_conflict	Bool	N	Y	N	N/A
ms_previous_state	String	N	Y	N	N/A
ms_server	String	Y*	N	N	N/A
ms_shared_secret	String	N	N	N	N/A
ms_state	String	N	Y	N	N/A
ms_switchover_interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	= ~
primary	String	Y*	N	N	N/A
primary_server_type	String	Y*	N	N	N/A
primary_state	String	N	Y	N	N/A
recycle_leases	Bool	N	N	N	N/A
secondary	String	Y*	N	N	N/A
secondary_server_type	String	Y*	N	N	N/A
secondary_state	String	N	Y	N	N/A
use_failover_port	Bool	N	N	N	N/A
use_ms_switchover_interval	Bool	N	N	N	N/A

use_recycle_leases	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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dhcpoptiondefinition : DHCP option definition object.

An option definition defines a DHCP option within a specific option space. A custom option can be defined in the predefined DHCP option space or in the user-defined vendor option space. To define an option, add the option definition to the required option space.

Object Reference

References to dhcpoptiondefinition are object references.

The *name* part of the dhcpoptiondefinition object reference has the following components:

- The name of the DHCP option definition object.

Example (using _ref or UUID):

```
# Using _ref dhcpoptiondefinition/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:first

# Using UUID dhcpoptiondefinition/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **code, name, type, uuid**.

The following fields are required to create this object:

Field	Notes
code	
name	
type	

code

`code`

The code of a DHCP option definition object. An option code number is used to identify the DHCP option.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The code is part of the base object.

name

`name`

The name of a DHCP option definition object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

space

`space`

The space of a DHCP option definition object.

Type

String.

Create

The default value is *DHCP*.

Search

The field is available for search via

- '=' (exact equality)

type

`type`

The data type of the Grid DHCP option.

Type

String.

Valid values are:

- 16-bit signed integer
- 16-bit unsigned integer
- 32-bit signed integer
- 32-bit unsigned integer
- 64-bit unsigned integer
- 8-bit signed integer
- 8-bit unsigned integer
- 8-bit unsigned integer (1,2,4,8)
- array of 16-bit integer
- array of 16-bit unsigned integer
- array of 32-bit integer
- array of 32-bit unsigned integer
- array of 64-bit unsigned integer
- array of 8-bit integer
- array of 8-bit unsigned integer
- array of ip-address
- array of ip-address pair
- array of string
- binary
- boolean
- boolean array of ip-address
- boolean-text
- domain-list
- domain-name
- encapsulated
- ip-address
- string
- text

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
code	Unsigned int	Y	N	Y	=
name	String	Y	N	Y	: = ~
space	String	N	N	N	=
type	String	Y	N	Y	=
uuid	String	N	Y	Y	: = ~

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dhcpoptionspace : DHCP option space object.

An Option Space defines a namespace in which vendor options can be defined. To define a specific vendor option space, add an option space to DHCP.

Object Reference

References to dhcpoptionspace are object references.

The *name* part of the dhcpoptionspace object reference has the following components:

- The name of the DHCP option space.

Example (using _ref or UUID):

```
# Using _ref
dhcpoptionspace/ZG5zLm9wdGlvbl9zcGFjZSRibG94Li5mYWxzZQ:blox

# Using UUID
dhcpoptionspace/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

A descriptive comment of a DHCP option space object.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

name

`name`

The name of a DHCP option space object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

option_definitions

`option_definitions`

The list of DHCP option definition objects.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

space_type

`space_type`

The type of a DHCP option space object.

Type

String.

Valid values are:

- PREDEFINED_DHCP
- VENDOR_SPACE

Search

The field is not available for search.

Notes

The space_type cannot be updated.

space_type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
name	String	Y	N	Y	: = ~

option_definitions	[String]	N	N	N	N/A
space_type	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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dhcpoptionspace : DHCP option space object.

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discovery:credentialgroup : The Credential group object.

discovery : Discovery object.

This object can be used to control the Network Insight functionality of the appliance.

Object Reference

This object cannot be retrieved from the appliance, hence it does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Read (retrieve)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

The object does not support any fields.

Function Calls

clear_network_port_assignment

This function is used to clear a network port assignment on a device.

This function must always be executed as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

network_deprovision_info (A/An Network Deprovision Info struct array.). This parameter is mandatory. The list of Network Deprovision Info structs, which contains information about interface and network for de-provisioning.

Output fields

None

control_switch_port

This function is used to configure the interface of a given switch device.

This function is used for both the Port Configuration and Device Interface Port Control for the IPAM IP Address object.

This function must always be executed as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

port_configs (A/An Port Control info struct array.). This parameter is mandatory. The list of port control configuration information.

Output fields

None

discovery_data_conversion

Use this function to convert multiple unmanaged objects into managed objects.

You can execute this function as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

addresses (An array of the following objects: ipv4address, ipv6address.). This parameter is mandatory. The list of IPv4 and IPv6 addresses, referring to the unmanaged Discovery Data.

attributes (A/An Discovery Data Conversion attributes struct.) The set of attributes that will override the default values of the target objects. The default value is “{}”.

extensible_attributes (String.) The set of extensible attributes that will be associated with the target objects. The default value is “{}”.

type (String. Valid values are: “HOST_RECORD”,

“FIXED_ADDRESS”, “IPV6_FIXED_ADDRESS”, “A_AND_PTR_RECORD”, “AAAA_AND_PTR_RECORD”). This parameter is mandatory. The record type of the target objects.

Output fields

results (A/An Discovery Data Conversion result struct array.) The list of Discovery Data conversion results for each processed object.

get_device_support_info

Use this function to get such information about device as device support statuses and device support info.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

device (String.). This parameter is mandatory. A reference of the device for which device support information should be retrieved.

Output fields

device_data_collection_status (A/An Device Data Collection Status struct struct array.) Array of device data statuses.

device_support_info (A/An Device Support Info struct struct array.) Array of device support info.

get_job_devices

This function is used to get the list of devices on which the Network Insight job is being processed.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

task (String.). This parameter is mandatory. The scheduled task reference of the Network Insight job.

Output fields

devices (A/An discovery:device object array.) The list of the devices on which jobs are executing.

get_job_process_details

This function is used to get Network Insight job processing logs for a given task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

device (String.). This parameter is mandatory. A reference to a RESTful API Device object.

start_line (Unsigned integer.). This parameter is mandatory. The start line of the stream.

task (String.). This parameter is mandatory. The scheduled task reference of the Network Insight job.

Output fields

details (A/An Discovery Job Process Details struct.) The job process details.

import_device_support_bundle

Use this function to import the device support file to the Infoblox appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

filename (String.). This parameter is mandatory. Name of the file as displayed to the user.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

modify_sdn_assignment

Use this function to assign a list of SDN networks to the network view. Can be called only if networks_mapping_policy parameter of advanced_sdn_polling_settings structure in discovery:gridproperties object is RULE_BASED

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

mode (String. Valid values are: “ASSIGN”, “UNASSIGN”). This parameter is mandatory. SDN network membership modification mode.

network_view (String.). This parameter is mandatory. The name of the network view to which a list of the SDN networks should be assign (unassign).

sdn_networks (A/An discovery:sdnnetwork object array.). This parameter is mandatory. The list of SDN networks that will be assigned/unassigned to the network view.

Output fields

None

modify_vrf_assignment

Use this function to assign a list of VRFs to the network view.

You can execute this function as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

mode (String. Valid values are: “ASSIGN”, “UNASSIGN”). This parameter is mandatory. VRF membership modification mode.

network_view (String.). This parameter is mandatory. The name of the network view to which a list of the virtual networks (VRFs) should be assign (unassign).

vrfs (A/An discovery:vrf object array.). This parameter is mandatory. The list of VRFs that will be assigned/unassigned to the network view.

Output fields

None

provision_network_dhcp_relay

This function is used to provision the network with an interface and to assign a default router IP address on a device.

This function must always be executed as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

enable_dhcp_relay (Bool.). This parameter is mandatory. If set to True, the IP address of the DHCP member that was assigned to this network will be configured on the device. If set to False, the IP address will be removed.

interfaces (A/An discovery:deviceinterface object array.). This parameter is mandatory. A list of references to a RESTful API Interface object of the device to which the DHCP forwarding information is pushed.

parent (String.). This parameter is mandatory. A reference to the RESTful API Network object on which the port is provisioned.

Output fields

None

provision_network_port

This function is used to provision the network with an interface and to assign default a router ip address on a device.

This function must always be executed as a scheduled task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

device (String.) A reference to the RESTful API Device object on which the port is configured.

enable_dhcp_relay (Bool.) Determines whether DHCP member's IP address assigned to this network will be configured on device.

interface (String.) A reference to the RESTful API Interface object of the given device.

network (String.). This parameter is mandatory. The network address, in IPv4 Address/CIDR or IPv6 Address/CIDR format.

network_view (String.). This parameter is mandatory. The name of the network view in which this network resides.

router_ip (String.). This parameter is mandatory. The IPv4 Address or IPv6 Address of the router to be configured.

vlan_info (A/An VLAN information struct.) The VLAN information if the interface object reference is not provided.

Output fields

None

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discovery:credentialgroup : The Credential group object.
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- Restrictions
- Fields
  - name
  - uuid
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Previous topic

discovery : Discovery object.

Next topic

discovery:device : Discovery Device object.

discovery:credentialgroup : The Credential group object.

This object provides information about the Credential group.

Object Reference

References to discovery:credentialgroup are object references.

Example (using _ref or UUID):

```
# Using _ref discovery:credentialgroup/ZGlzY292ZXJ5LmNyZWRlbnRpYWxfZ3JvdXAkMTU:default

# Using UUID discovery:credentialgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

name

`name`

The name of the Credential group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The name is part of the base object.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
name	String	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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Previous topic

discovery:credentialgroup : The Credential

discovery:device : Discovery Device object.

The devices discovered by Network Automation

Object Reference

References to discovery:device are object references. The *name* part of a Discovery Device object reference has the following components:

- Name of the device
- Name of the network view

Example: discovery:device/ZG5zLmJpbmRfY25h:somedevice/mynview

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, name, network_view**.

address

`address`

The IPv4 Address or IPv6 Address of the device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

address_ref

address_ref

The ref to management IP address of the device.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The address_ref cannot be updated.

address_ref cannot be written.

available_mgmt_ips

available_mgmt_ips

The list of available management IPs for the device.

Type

String array.

Search

The field is not available for search.

Notes

The available_mgmt_ips cannot be updated.

available_mgmt_ips cannot be written.

cap_admin_status_ind

cap_admin_status_ind

Determines whether to modify the admin status of an interface of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_admin_status_ind cannot be updated.

cap_admin_status_ind cannot be written.

cap_admin_status_na_reason

`cap_admin_status_na_reason`

The reason that the edit admin status action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_admin_status_na_reason cannot be updated.

cap_admin_status_na_reason cannot be written.

cap_description_ind

`cap_description_ind`

Determines whether to modify the description of an interface on the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_description_ind cannot be updated.

cap_description_ind cannot be written.

cap_description_na_reason

`cap_description_na_reason`

The reason that the edit description action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_description_na_reason cannot be updated.

cap_description_na_reason cannot be written.

cap_net_deprovisioning_ind

`cap_net_deprovisioning_ind`

Determines whether to deprovision a network from interfaces of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_net_deprovisioning_ind cannot be updated.

cap_net_deprovisioning_ind cannot be written.

cap_net_deprovisioning_na_reason

`cap_net_deprovisioning_na_reason`

The reason that the deprovision a network from interfaces of this device is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_net_deprovisioning_na_reason cannot be updated.

cap_net_deprovisioning_na_reason cannot be written.

cap_net_provisioning_ind

`cap_net_provisioning_ind`

Determines whether to modify the network associated to an interface of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_net_provisioning_ind cannot be updated.

cap_net_provisioning_ind cannot be written.

cap_net_provisioning_na_reason

`cap_net_provisioning_na_reason`

The reason that network provisioning is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_net_provisioning_na_reason cannot be updated.

cap_net_provisioning_na_reason cannot be written.

cap_net_vlan_provisioning_ind

`cap_net_vlan_provisioning_ind`

Determines whether to create a VLAN and then provision a network to the interface of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_net_vlan_provisioning_ind cannot be updated.

cap_net_vlan_provisioning_ind cannot be written.

cap_net_vlan_provisioning_na_reason

cap_net_vlan_provisioning_na_reason

The reason that network provisioning on VLAN is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_net_vlan_provisioning_na_reason cannot be updated.

cap_net_vlan_provisioning_na_reason cannot be written.

cap_vlan_assignment_ind

cap_vlan_assignment_ind

Determines whether to modify the VLAN assignment of an interface of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_vlan_assignment_ind cannot be updated.

cap_vlan_assignment_ind cannot be written.

cap_vlan_assignment_na_reason

cap_vlan_assignment_na_reason

The reason that VLAN assignment action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_vlan_assignment_na_reason cannot be updated.

cap_vlan_assignment_na_reason cannot be written.

cap_voice_vlan_ind

`cap_voice_vlan_ind`

Determines whether to modify the voice VLAN assignment of an interface of the device.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_voice_vlan_ind cannot be updated.

cap_voice_vlan_ind cannot be written.

cap_voice_vlan_na_reason

`cap_voice_vlan_na_reason`

The reason that voice VLAN assignment action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_voice_vlan_na_reason cannot be updated.

cap_voice_vlan_na_reason cannot be written.

chassis_serial_number

`chassis_serial_number`

The device chassis serial number.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The chassis_serial_number cannot be updated.

chassis_serial_number cannot be written.

description

`description`

The description of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The description cannot be updated.

description cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interfaces

`interfaces`

List of the device interfaces.

Type

A/An discovery:deviceinterface object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The interfaces cannot be updated.

interfaces cannot be written.

location

`location`

The location of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The location cannot be updated.

location cannot be written.

model

`model`

The model name of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The model cannot be updated.

model cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

The name of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

neighbors

`neighbors`

List of the device neighbors.

Type

A/An discovery:deviceneighbor object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The neighbors cannot be updated.

neighbors cannot be written.

network

`network`

The ref to the network to which belongs the management IP address belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The network cannot be updated.

network cannot be written.

network_infos

`network_infos`

The list of networks to which the device interfaces belong.

Type

A/An Network info struct array.

Search

The field is not available for search.

Notes

The network_infos cannot be updated.

network_infos cannot be written.

network_view

network_view

The name of the network view in which this device resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

networks

networks

The list of networks to which the device interfaces belong.

Type

An array of the following objects: network, networkcontainer, ipv6network.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The networks cannot be updated.

networks cannot be written.

os_version

os_version

The Operating System version running on the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The os_version cannot be updated.

os_version cannot be written.

port_stats

`port_stats`

The port statistics of the device.

Type

A/An Port statistics struct.

Search

The field is not available for search.

Notes

The port_stats cannot be updated.

port_stats cannot be written.

privileged_polling

`privileged_polling`

A flag indicated that NI should send enable command when interacting with device.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

type

`type`

The type of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The type cannot be updated.

type cannot be written.

user_defined_mgmt_ip

`user_defined_mgmt_ip`

User-defined management IP address of the device.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

vendor

`vendor`

The vendor name of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The vendor cannot be updated.

vendor cannot be written.

vlan_infos

`vlan_infos`

The list of VLAN information associated with the device.

Type

A/An VLAN information struct array.

Search

The field is not available for search.

Notes

The vlan_infos cannot be updated.

vlan_infos cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovery_member

`discovery_member`

The member that will run discovery for this Device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovery_member is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	: = ~
address_ref	String	N	Y	N	N/A
available_mgmt_ips	[String]	N	Y	N	N/A
cap_admin_status_ind	Bool	N	Y	N	N/A
cap_admin_status_na_reason	String	N	Y	N	N/A
cap_description_ind	Bool	N	Y	N	N/A
cap_description_na_reason	String	N	Y	N	N/A
cap_net_deprovisioning_ind	Bool	N	Y	N	N/A

cap_net_deprovisioning_na_reason	String	N	Y	N	N/A
cap_net_provisioning_ind	Bool	N	Y	N	N/A
cap_net_provisioning_na_reason	String	N	Y	N	N/A
cap_net_vlan_provisioning_ind	Bool	N	Y	N	N/A
cap_net_vlan_provisioning_na_reason	String	N	Y	N	N/A
cap_vlan_assignment_ind	Bool	N	Y	N	N/A
cap_vlan_assignment_na_reason	String	N	Y	N	N/A
cap_voice_vlan_ind	Bool	N	Y	N	N/A
cap_voice_vlan_na_reason	String	N	Y	N	N/A
chassis_serial_number	String	N	Y	N	=
description	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
interfaces	[obj]	N	Y	N	N/A
location	String	N	Y	N	: = ~
model	String	N	Y	N	: = ~
ms_ad_user_data	struct	N	Y	N	N/A
name	String	N	Y	Y	: = ~
neighbors	[obj]	N	Y	N	N/A
network	String	N	Y	N	N/A
network_infos	[struct]	N	Y	N	N/A
network_view	String	N	Y	Y	=
networks	obj	N	Y	N	N/A
os_version	String	N	Y	N	: = ~
port_stats	struct	N	Y	N	N/A
privileged_polling	Bool	N	N	N	N/A
type	String	N	Y	N	: = ~
user_defined_mgmt_ip	String	N	N	N	N/A
vendor	String	N	Y	N	: = ~
vlan_infos	[struct]	N	Y	N	N/A

Search-only Fields List

Field	Type	Search
discovery_member	String	=

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discovery:device : Discovery Device object.

Next topic

discovery:deviceinterface : Device Interface object.

discovery:devicecomponent : Device Component object.

The device components discovered by Network Automation.

Object Reference

References to discovery:devicecomponent are object references. The *name* part of a Discovery Device Component object reference has the following components:

- Name of the device component

Example: discovery:devicecomponent/ZG5zLmJpbmRfY25h:somedevice/mynview

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **component_name, description, model, serial, type**.

component_name

`component_name`

The component name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The component_name is part of the base object.

The component_name cannot be updated.

component_name cannot be written.

description

`description`

The description of the device component.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The description is part of the base object.

The description cannot be updated.

description cannot be written.

device

`device`

A reference to a device, to which this component belongs to.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The device cannot be updated.

device cannot be written.

model

`model`

The model of the device component.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The model is part of the base object.

The model cannot be updated.

model cannot be written.

serial

`serial`

The serial number of the device component.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The serial is part of the base object.

The serial cannot be updated.

serial cannot be written.

type

`type`

The type of device component.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
component_name	String	N	Y	Y	N/A
description	String	N	Y	Y	N/A
device	String	N	Y	N	=
model	String	N	Y	Y	N/A
serial	String	N	Y	Y	N/A
type	String	N	Y	Y	N/A

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discovery:deviceinterface : Device Interface object.

Interfaces on devices discovered by Network Automation

Object Reference

References to discovery:deviceinterface are object references. The *name* part of a Discovery Device Interface object reference has the following components:

- Name of the device interface

Example: discovery:deviceinterface/ZG5zLmJpbmRfY25h:deviceinterface

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, type**.

admin_status

`admin_status`

Administrative state of the interface.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is not available for search.

Notes

The admin_status cannot be updated.

admin_status cannot be written.

admin_status_task_info

admin_status_task_info

The configured admin status task info of the interface.

Type

A/An Port Config Admin Status struct.

Search

The field is not available for search.

Notes

The admin_status_task_info cannot be updated.

admin_status_task_info cannot be written.

aggr_interface_name

aggr_interface_name

Name of the port channel current interface belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The aggr_interface_name cannot be updated.

aggr_interface_name cannot be written.

cap_if_admin_status_ind

cap_if_admin_status_ind

Determines whether to modify the admin status of the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_admin_status_ind cannot be updated.

cap_if_admin_status_ind cannot be written.

cap_if_admin_status_na_reason

cap_if_admin_status_na_reason

The reason that the edit admin status action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_admin_status_na_reason cannot be updated.

cap_if_admin_status_na_reason cannot be written.

cap_if_description_ind

`cap_if_description_ind`

Determines whether to modify the description of the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_description_ind cannot be updated.

cap_if_description_ind cannot be written.

cap_if_description_na_reason

`cap_if_description_na_reason`

The reason that the edit description action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_description_na_reason cannot be updated.

cap_if_description_na_reason cannot be written.

cap_if_net_deprovisioning_ipv4_ind

`cap_if_net_deprovisioning_ipv4_ind`

Determines whether to deprovision a IPv4 network from the interfaces.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_net_deprovisioning_ipv4_ind cannot be updated.

cap_if_net_deprovisioning_ipv4_ind cannot be written.

cap_if_net_deprovisioning_ipv4_na_reason

`cap_if_net_deprovisioning_ipv4_na_reason`

The reason that the deprovision a IPv4 network from the interface.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_net_deprovisioning_ipv4_na_reason cannot be updated.

cap_if_net_deprovisioning_ipv4_na_reason cannot be written.

cap_if_net_deprovisioning_ipv6_ind

`cap_if_net_deprovisioning_ipv6_ind`

Determines whether to deprovision a IPv6 network from the interfaces.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_net_deprovisioning_ipv6_ind cannot be updated.

cap_if_net_deprovisioning_ipv6_ind cannot be written.

cap_if_net_deprovisioning_ipv6_na_reason

`cap_if_net_deprovisioning_ipv6_na_reason`

The reason that the deprovision a IPv6 network from the interface.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_net_deprovisioning_ipv6_na_reason cannot be updated.

cap_if_net_deprovisioning_ipv6_na_reason cannot be written.

cap_if_net_provisioning_ipv4_ind

`cap_if_net_provisioning_ipv4_ind`

Determines whether to modify the IPv4 network associated to the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_net_provisioning_ipv4_ind cannot be updated.

cap_if_net_provisioning_ipv4_ind cannot be written.

cap_if_net_provisioning_ipv4_na_reason

`cap_if_net_provisioning_ipv4_na_reason`

The reason that IPv4 network provisioning is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_net_provisioning_ipv4_na_reason cannot be updated.

cap_if_net_provisioning_ipv4_na_reason cannot be written.

cap_if_net_provisioning_ipv6_ind

`cap_if_net_provisioning_ipv6_ind`

Determines whether to modify the IPv6 network associated to the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_net_provisioning_ipv6_ind cannot be updated.

cap_if_net_provisioning_ipv6_ind cannot be written.

cap_if_net_provisioning_ipv6_na_reason

`cap_if_net_provisioning_ipv6_na_reason`

The reason that IPv6 network provisioning is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_net_provisioning_ipv6_na_reason cannot be updated.

cap_if_net_provisioning_ipv6_na_reason cannot be written.

cap_if_vlan_assignment_ind

`cap_if_vlan_assignment_ind`

Determines whether to modify the VLAN assignment of the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_vlan_assignment_ind cannot be updated.

cap_if_vlan_assignment_ind cannot be written.

cap_if_vlan_assignment_na_reason

`cap_if_vlan_assignment_na_reason`

The reason that VLAN assignment action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_vlan_assignment_na_reason cannot be updated.

cap_if_vlan_assignment_na_reason cannot be written.

cap_if_voice_vlan_ind

`cap_if_voice_vlan_ind`

Determines whether to modify the voice VLAN assignment of the interface.

Type

Bool.

Search

The field is not available for search.

Notes

The cap_if_voice_vlan_ind cannot be updated.

cap_if_voice_vlan_ind cannot be written.

cap_if_voice_vlan_na_reason

`cap_if_voice_vlan_na_reason`

The reason that voice VLAN assignment action is not available.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The cap_if_voice_vlan_na_reason cannot be updated.

cap_if_voice_vlan_na_reason cannot be written.

description

`description`

The description of the interface.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The description cannot be updated.

description cannot be written.

description_task_info

`description_task_info`

The configured description task info of the interface.

Type

A/An Port Config Description struct.

Search

The field is not available for search.

Notes

The description_task_info cannot be updated.

description_task_info cannot be written.

device

`device`

The ref to the device to which the interface belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The device cannot be updated.

device cannot be written.

duplex

`duplex`

The duplex state of the interface.

Type

String.

Valid values are:

- FULL
- HALF
- UNKNOWN
- UNSUPPORTED

Search

The field is not available for search.

Notes

The duplex cannot be updated.

duplex cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ifaddr_infos

`ifaddr_infos`

List of IFaddr information associated with the interface.

Type

A/An IfAddr information struct array.

Search

The field is not available for search.

Notes

The ifaddr_infos cannot be updated.

ifaddr_infos cannot be written.

index

index

The interface index number, as reported by SNMP.

Type

Integer.

Search

The field is not available for search.

Notes

The index cannot be updated.

index cannot be written.

last_change

last_change

Timestamp of the last interface property change detected.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_change cannot be updated.

last_change cannot be written.

link_aggregation

link_aggregation

This field indicates if this is a link aggregation interface.

Type

Bool.

Search

The field is not available for search.

Notes

The link_aggregation cannot be updated.

link_aggregation cannot be written.

mac

mac

The MAC address of the interface.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The mac cannot be updated.

mac cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

The interface system name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

network_view

Th name of the network view.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view cannot be written.

oper_status

oper_status

Operating state of the interface.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is available for search via

- '=' (exact equality)

Notes

The oper_status cannot be updated.

oper_status cannot be written.

port_fast

port_fast

The Port Fast status of the interface.

Type

String.

Valid values are:

- DISABLED
- ENABLED

Search

The field is not available for search.

Notes

The port_fast cannot be updated.

port_fast cannot be written.

reserved_object

`reserved_object`

The reference to object(Host/FixedAddress/GridMember) to which this port is reserved.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The reserved_object cannot be updated.

reserved_object cannot be written.

speed

`speed`

The interface speed in bps.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

The speed cannot be updated.

speed cannot be written.

trunk_status

`trunk_status`

Indicates if the interface is tagged as a VLAN trunk or not.

Type

String.

Valid values are:

- OFF
- ON

Search

The field is not available for search.

Notes

The trunk_status cannot be updated.

trunk_status cannot be written.

type

`type`

The type of interface.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

vlan_info_task_info

`vlan_info_task_info`

The configured VLAN status task info of the interface.

Type

A/An Port Config VLAN info struct.

Search

The field is not available for search.

Notes

The vlan_info_task_info cannot be updated.

vlan_info_task_info cannot be written.

vlan_infos

`vlan_infos`

The list of VLAN information associated with the interface.

Type

A/An VLAN information struct array.

Search

The field is not available for search.

Notes

The vlan_infos cannot be updated.

vlan_infos cannot be written.

vpc_peer

`vpc_peer`

Aggregated interface name of vPC peer device current port is connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The vpc_peer cannot be updated.

vpc_peer cannot be written.

vpc_peer_device

`vpc_peer_device`

The reference to vPC peer device.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The vpc_peer_device cannot be updated.

vpc_peer_device cannot be written.

vrf_description

`vrf_description`

The description of the Virtual Routing and Forwarding (VRF) associated with the interface.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The vrf_description cannot be updated.

vrf_description cannot be written.

vrf_name

`vrf_name`

The name of the Virtual Routing and Forwarding (VRF) associated with the interface.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The vrf_name cannot be updated.

vrf_name cannot be written.

vrf_rd

`vrf_rd`

The route distinguisher of the Virtual Routing and Forwarding (VRF) associated with the interface.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The vrf_rd cannot be updated.

vrf_rd cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
admin_status	String	N	Y	N	N/A
admin_status_task_info	struct	N	Y	N	N/A
aggr_interface_name	String	N	Y	N	=
cap_if_admin_status_ind	Bool	N	Y	N	N/A
cap_if_admin_status_na_reason	String	N	Y	N	N/A
cap_if_description_ind	Bool	N	Y	N	N/A
cap_if_description_na_reason	String	N	Y	N	N/A
cap_if_net_deprovisioning_ipv4_ind	Bool	N	Y	N	N/A
cap_if_net_deprovisioning_ipv4_na_reason	String	N	Y	N	N/A
cap_if_net_deprovisioning_ipv6_ind	Bool	N	Y	N	N/A
cap_if_net_deprovisioning_ipv6_na_reason	String	N	Y	N	N/A
cap_if_net_provisioning_ipv4_ind	Bool	N	Y	N	N/A
cap_if_net_provisioning_ipv4_na_reason	String	N	Y	N	N/A
cap_if_net_provisioning_ipv6_ind	Bool	N	Y	N	N/A
cap_if_net_provisioning_ipv6_na_reason	String	N	Y	N	N/A
cap_if_vlan_assignment_ind	Bool	N	Y	N	N/A
cap_if_vlan_assignment_na_reason	String	N	Y	N	N/A
cap_if_voice_vlan_ind	Bool	N	Y	N	N/A
cap_if_voice_vlan_na_reason	String	N	Y	N	N/A
description	String	N	Y	N	: = ~
description_task_info	struct	N	Y	N	N/A
device	String	N	Y	N	N/A
duplex	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
ifaddr_infos	[struct]	N	Y	N	N/A
index	Integer	N	Y	N	N/A
last_change	Timestamp	N	Y	N	N/A
link_aggregation	Bool	N	Y	N	N/A
mac	String	N	Y	N	: = ~
ms_ad_user_data	struct	N	Y	N	N/A
name	String	N	Y	Y	: = ~
network_view	String	N	Y	N	=
oper_status	String	N	Y	N	=
port_fast	String	N	Y	N	N/A
reserved_object	String	N	Y	N	N/A
speed	Unsigned int	N	Y	N	! < = >
trunk_status	String	N	Y	N	N/A
type	String	N	Y	Y	: = ~
vlan_info_task_info	struct	N	Y	N	N/A
vlan_infos	[struct]	N	Y	N	N/A
vpc_peer	String	N	Y	N	=
vpc_peer_device	String	N	Y	N	N/A
vrf_description	String	N	Y	N	=
vrf_name	String	N	Y	N	=
vrf_rd	String	N	Y	N	=

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discovery:devicesupportbundle : Device support bundle object.

discovery:deviceneighbor : Device Neighbor object.

The neighbor associated with the device discovered by Network Automation.

Note

Only reference searches are supported for retrieving a single discovery:deviceneighbor object. If no search parameters and references are passed, the appliance returns an empty list.

NOTE: Currently, reference searches DO NOT return all the values for the object's fields. For example, 'mac' and 'vlan_infos' will not be returned. These values can be retrieved by fetching the discovery:device object and using nested return fields for the 'neighbors' field.

Object Reference

References to discovery:deviceneighbor are object references. The *name* part of a Discovery Device Neighbor object reference has the following components:

- Name of the device neighbor
- Name of the network view

Example:
discovery:deviceneighbor/ZG5zLmJpbmRfY25h:deviceneighbor/myview

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address,**

address_ref, mac, name.

address

address

The IPv4 Address or IPv6 Address of the device neighbor.

Type

String.

Search

The field is not available for search.

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

address_ref

address_ref

The ref to the management IP address of the device neighbor.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The address_ref is part of the base object.

The address_ref cannot be updated.

address_ref cannot be written.

device

device

The ref to the device to which the device neighbor belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The device cannot be updated.

device cannot be written.

interface

`interface`

The ref to the interface to which the device neighbor belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The interface cannot be updated.

interface cannot be written.

mac

`mac`

The MAC address of the device neighbor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mac is part of the base object.

The mac cannot be updated.

mac cannot be written.

name

name

The name of the device neighbor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

vlan_infos

vlan_infos

The list of VLAN information associated with the device neighbor.

Type

A/An VLAN information struct array.

Search

The field is not available for search.

Notes

The vlan_infos cannot be updated.

vlan_infos cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	N/A
address_ref	String	N	Y	Y	N/A
device	String	N	Y	N	=
interface	String	N	Y	N	N/A
mac	String	N	Y	Y	N/A
name	String	N	Y	Y	N/A

vlan_infos	[struct]	N	Y	N	N/A

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discovery:devicesupportbundle : Device support bundle object.
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discovery:diagnostictask : The discovery diagnostic task object.

discovery:devicesupportbundle : Device support bundle object.

Infoblox frequently provides support files for additional network devices that may not have previously been supported by discovery, and updates to support new operating system versions of existing devices.

The device support bundle represents the entity for displaying and managing device support files.

Object Reference

References to discovery:devicesupportbundle are object references.

The *name* part of a device support bundle object reference has the following components:

- The descriptive device name for the device support bundle

Example: discovery:devicesupportbundle/ZG5zLmJpbmRfY25h:switch

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **author, integrated_ind, name, version**.

author

author

The developer of the device support bundle.

Type

String.

Search

The field is not available for search.

Notes

The author is part of the base object.

The author cannot be updated.

author cannot be written.

integrated_ind

integrated_ind

Determines whether the device support bundle is integrated or imported. Note that integrated support bundles cannot be removed.

Type

Bool.

Search

The field is not available for search.

Notes

The integrated_ind is part of the base object.

The integrated_ind cannot be updated.

integrated_ind cannot be written.

name

name

The descriptive device name for the device support bundle.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

version

`version`

The version of the currently active device support bundle.

Type

String.

Search

The field is not available for search.

Notes

The version is part of the base object.

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
author	String	N	Y	Y	N/A
integrated_ind	Bool	N	Y	Y	N/A
name	String	N	Y	Y	: = ~
version	String	N	Y	Y	N/A

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discovery:devicesupportbundle : Device support bundle object.

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discovery:gridproperties : The Grid discovery properties object.

discovery:diagnostictask : The discovery diagnostic task object.

The object provides information about the discovery diagnostic task.

Object Reference

References to discovery:diagnostictask are object references.

The *name* part of a discovery diagnostic task object reference has the following components:

- IP address of the discovery diagnostic task
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref
discovery:diagnostictask/ZG5zLmJpbmRfY25h:12.0.30.4/default

# Using UUID
discovery:diagnostictask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ip_address, network_view, task_id, uuid**.

community_string

`community_string`

The SNMP community string of the discovery diagnostic task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

debug_snmp

`debug_snmp`

The SNMP debug flag of the discovery diagnostic task.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

force_test

`force_test`

The force test flag of the discovery diagnostic task.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

ip_address

`ip_address`

The IP address of the discovery diagnostic task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ip_address is part of the base object.

network_view

`network_view`

The network view name of the discovery diagnostic task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

start_time

`start_time`

The time when the discovery diagnostic task was started.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is not available for search.

task_id

`task_id`

The ID of the discovery diagnostic task.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The task_id is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
community_string	String	N	N	N	N/A
debug_snmp	Bool	N	N	N	N/A
force_test	Bool	N	N	N	N/A
ip_address	String	N	N	Y	: = ~
network_view	String	N	N	Y	=
start_time	Timestamp	N	N	N	N/A
task_id	String	N	N	Y	=
uuid	String	N	Y	Y	: = ~

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discovery:diagnostictask : The discovery diagnostic task object.

Next topic

discovery:memberproperties : The Grid discovery member properties object.

discovery:gridproperties : The Grid discovery properties object.

The object provides information about the Grid discovery properties.

Object Reference

References to discovery:gridproperties are object references.

The *name* part of the discovery:gridproperties object reference has the following components:

- The grid name.

Example (using _ref or UUID):

```
# Using _ref
discovery:gridproperties/ZGlzY292ZXJ5LmNsdXN0ZXJfZGlzY292ZXJ5X3Byb3BlcnRpZXMkMA:Infoblox

# Using UUID
discovery:gridproperties/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **grid_name, uuid**.

advanced_polling_settings

`advanced_polling_settings`

Discovery advanced polling settings.

Type

A/An The advanced polling settings structure struct.

Create

The default value is:

```
  { 'arp_aggregate_limit': 30,
'arp_cache_refresh_interval': 300,
```

```
'dhcp_router_as_seed': True,
'disable_discovery_outside_ipam': False,
'enable_purge_expired_endhost_data': True,
'ping_retries': 2,
'ping_sweep_interval': 86400,
'ping_timeout': 1000,
'polling_authenticate_snmpv2c_or_later_only': True,
'purge_expired_device_data': 7,
'purge_expired_endhost_data': 86400,
'route_limit': 3000,
'syslog_ipam_events': False,
'syslog_network_events': True,
'tcp_scan_technique': 'SYN'}
```

Search

The field is not available for search.

advanced_sdn_polling_settings

`advanced_sdn_polling_settings`

Discovery advanced polling settings.

Type

A/An The advanced SDN polling settings structure struct.

Create

The default value is:

```
  { 'disable_sdn_discovery_outside_ipam': False,
'networks_mapping_policy': 'DISABLED'}
```

Search

The field is not available for search.

advisor_settings

`advisor_settings`

Advisor settings.

Type

A/An Advisor Settings structure struct.

Create

The default value is:

```
  { 'auth_type': 'TOKEN',
'enable_proxy': False,
'execution_hour': 3,
'execution_interval': 86400,
'min_severity': '8.0',
'use_proxy_username_passwd': False}
```

Search

The field is not available for search.

auto_conversion_settings

auto_conversion_settings

Automatic conversion settings.

Type

A/An This struct contains settings for automatic conversion struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

basic_polling_settings

basic_polling_settings

Discovery basic polling settings.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

basic_sdn_polling_settings

basic_sdn_polling_settings

Discovery basic polling settings.

Type

A/An Basic SDN Poll Settings struct.

Create

The default value is:

```
  { 'end_host_polling': 'PERIODIC',
'end_host_polling_interval': 3600,
'sdn_discovery': True}
```

Search

The field is not available for search.

cli_credentials

`cli_credentials`

Discovery CLI credentials.

Type

A/An CLI credential struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

device_hints

`device_hints`

Device Hints.

Type

A/An This struct contains Device Hint struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

discovery_blackout_setting

`discovery_blackout_setting`

Discovery blackout setting.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

dns_lookup_option

`dns_lookup_option`

The type of the devices the DNS processor operates on.

Type

String.

Valid values are:

- ALL
- INFRAONLY
- OFF

Create

The default value is *INFRAONLY*.

Search

The field is not available for search.

dns_lookup_throttle

`dns_lookup_throttle`

The percentage of available capacity the DNS processor operates at.

Valid values are unsigned integer between 1 and 100, inclusive.

Type

Unsigned integer.

Create

The default value is *100*.

Search

The field is not available for search.

enable_advisor

`enable_advisor`

Advisor application enabled/disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_auto_conversion

`enable_auto_conversion`

The flag that enables automatic conversion of discovered data.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_auto_updates

`enable_auto_updates`

The flag that enables updating discovered data for managed objects.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

grid_name

`grid_name`

The Grid name.

Type

String.

Search

The field is not available for search.

Notes

The grid_name is part of the base object.

The grid_name cannot be updated.

grid_name cannot be written.

ignore_conflict_duration

`ignore_conflict_duration`

Determines the timeout to ignore the discovery conflict duration (in seconds).

Type

Unsigned integer.

Create

The default value is *86400*.

Search

The field is not available for search.

port_control_blackout_setting

`port_control_blackout_setting`

Port control blackout setting.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

ports

`ports`

Ports to scan.

Type

A/An The discovery port structure struct array.

Create

The default value is:

```
  [ {'comment': 'tcpmux', 'port': 1, 'type': 'TCP'},
{'comment': 'echo', 'port': 7, 'type': 'TCP'},
{'comment': 'discard', 'port': 9, 'type': 'TCP'},
{'comment': 'systat', 'port': 11, 'type': 'TCP'},
{'comment': 'daytime', 'port': 13, 'type': 'TCP'},
{'comment': 'qotd', 'port': 17, 'type': 'TCP'},
{'comment': 'chargen', 'port': 19, 'type': 'TCP'},
{'comment': 'ftp-data', 'port': 20, 'type': 'TCP'},
{'comment': 'ftp', 'port': 21, 'type': 'TCP'},
{'comment': 'ssh', 'port': 22, 'type': 'TCP'},
{'comment': 'telnet', 'port': 23, 'type': 'TCP'},
{'comment': 'smtp', 'port': 25, 'type': 'TCP'},
{'comment': 'time', 'port': 37, 'type': 'TCP'},
```

```
{'comment': 'nameserver', 'port': 42, 'type': 'TCP'},
{'comment': 'domain', 'port': 53, 'type': 'TCP'},
{'comment': 'bootps', 'port': 67, 'type': 'UDP'},
{'comment': 'bootps', 'port': 67, 'type': 'TCP'},
{'comment': 'bootpc', 'port': 68, 'type': 'TCP'},
{'comment': 'tftp', 'port': 69, 'type': 'TCP'},
{'comment': 'http', 'port': 80, 'type': 'TCP'},
{'comment': 'kerberos', 'port': 88, 'type': 'TCP'},
{'comment': 'linuxconf', 'port': 98, 'type': 'TCP'},
{'comment': 'pop2', 'port': 109, 'type': 'TCP'},
{'comment': 'pop3', 'port': 110, 'type': 'TCP'},
{'comment': 'sunrpc', 'port': 111, 'type': 'TCP'},
{'comment': 'sftp', 'port': 115, 'type': 'TCP'},
{'comment': 'ntp', 'port': 123, 'type': 'TCP'},
{'comment': 'netbios-ns', 'port': 137, 'type': 'TCP'},
{'comment': 'netbios-dgm', 'port': 138, 'type': 'TCP'},
{'comment': 'netbios-ssn', 'port': 139, 'type': 'TCP'},
{'comment': 'imap', 'port': 143, 'type': 'TCP'},
{'comment': 'snmp', 'port': 161, 'type': 'TCP'},
{'comment': 'imap3', 'port': 220, 'type': 'TCP'},
{'comment': 'bgmp', 'port': 264, 'type': 'TCP'},
{'comment': 'https', 'port': 443, 'type': 'TCP'},
{'comment': 'smpts', 'port': 465, 'type': 'TCP'},
{'comment': 'printer', 'port': 515, 'type': 'TCP'},
{'comment': 'socks', 'port': 1080, 'type': 'TCP'},
{'comment': 'mysql', 'port': 3306, 'type': 'TCP'},
{'comment': 'postgres', 'port': 5432, 'type': 'TCP'},
{'comment': 'x11', 'port': 6000, 'type': 'TCP'},
{'comment': 'ircd', 'port': 6667, 'type': 'TCP'},
{'comment': 'webcache', 'port': 8080, 'type': 'TCP'},
{'comment': 'jetdirect', 'port': 9100, 'type': 'TCP'}]
```

Search

The field is not available for search.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

Determines if the same port control is used for discovery blackout.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

snmpv1v2_credentials

`snmpv1v2_credentials`

Discovery SNMP v1 and v2 credentials.

Type

A/An SNMP Credential struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

snmpv3_credentials

`snmpv3_credentials`

Discovery SNMP v3 credentials.

Type

A/An SNMP v3 Credential struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

unmanaged_ips_limit

`unmanaged_ips_limit`

Limit of discovered unmanaged IP address which determines how frequently the user is notified about the new unmanaged IP address in a particular network.

Type

Unsigned integer.

Create

The default value is *20*.

Search

The field is not available for search.

unmanaged_ips_timeout

`unmanaged_ips_timeout`

Determines the timeout between two notifications (in seconds) about the new unmanaged IP address in a particular network. The value must be between 60 seconds and the number of seconds remaining to Jan 2038.

Type

Unsigned integer.

Create

The default value is *300*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vrf_mapping_policy

vrf_mapping_policy

The policy type used to define the behavior of the VRF mapping.

Type

String.

Valid values are:

- NONE
- RULE_AND_INTERNAL_BASED
- RULE_BASED

Create

The default value is *NONE*.

Search

The field is not available for search.

vrf_mapping_rules

vrf_mapping_rules

VRF mapping rules.

Type

A/An This struct contains VRF Mapping Rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Function Calls

advisor_run_now

This function is used to launch Advisor immediately

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

exec_status (String.) OK if funccall succeeded, otherwise ERROR.

advisor_test_connection

This function is used to test connection to Advisor central

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

address (String.). This parameter is mandatory. Host name or ip address of the Advisor server

auth_token (String.) Advisor AUTH token

auth_type (String. Valid values are: “TOKEN”, “CREDS”). This parameter is mandatory. Authentication type used for Advisor server

enable_proxy (Bool.) Use proxy server if true.

min_severity (String.). This parameter is mandatory. Advisor minimal severity

network_interface_type (String. Valid values are: “MGMT”, “LAN1”, “LAN2”, “VLAN”). This parameter is mandatory. The type of the network interface on consolidator member.

network_interface_virtual_ip (String.) The interface for Advisor application on consolidator member.

password (String.) Password for Advisor server

port (Unsigned integer.). This parameter is mandatory. Port number the Advisor server listens on

proxy_address (String.) Host name or ip address of the proxy server.

proxy_password (String.) Proxy password.

proxy_port (Unsigned integer.) Port number the proxy listens on.

proxy_username (String.) Proxy username.

use_proxy_username_passwd (Bool.) Is proxy authorization required?

username (String.) Username for Advisor server

Output fields

last_exec_details (String.) Details of the last execution attempt of Advisor. Describes the error or warning with a string

last_exec_status (String. Valid values are: “OK”, “WARNING”, “ERROR”) Result of the last execution attempt of Advisor

last_exec_time (Timestamp.) Timestamp of the Advisor last execution attempt’

diagnostic

This function is used to execute a discovery diagnostic to help determine why a specific device is presenting difficulties in discovery.

For example, a given device may be reachable but may show an overall status of Failed in the Discovery Status GUI dialog. Discovery diagnostic steps through a complete discovery process based on the configuration on the Probe member to which the device is assigned. The diagnostic runs all the way from fetching the SNMP object ID information to the ARP table reading and to ICMP pings and traceroutes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

address (String.). This parameter is mandatory. The IPv4 or IPv6 address of the device on which you want to perform the test. The discovery diagnostic runs a full discovery procedure against the specified IP address.

community_string (String.) The community string for the device if the required SNMP credential is not currently configured for the discovery member. It may not be necessary to enter a community string if the device is already discovered by NIOS and is a managed device.

discovery_member (String.) Host name of the discovery member to use. You must specify a discovery member or a network view.

enable_snmp_debug (Bool.) Determines whether SNMP debug is enabled. The default value is “True”.

force_test (Bool.) Determines if a diagnostic against the device is forced.

network_view (String.) Network view in which the IP address resides. NIOS conducts a discovery diagnostic for the IP address in the selected network view. You must specify a discovery member or a network view.

Output fields

session_id (String.) The diagnostic session ID which can be used to retrieve status.

diagnostic_status

This function is used to retrieve diagnostic status.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

session_id (String.). This parameter is mandatory. Session ID returned by the diagnostic function call.

start (Integer.). This parameter is mandatory. Start position of the text to return or be returned.

Output fields

end (Integer.) End position of the resulting text string.

session_id (String.) Session ID returned by the diagnostic function call.

start (Integer.) Start position of the text to return or be returned.

status (String. Valid values are: “INPROGRESS”, “COMPLETED”, “FAILED”) Status of the diagnostic.

text (String.) The resulting text string.

Fields List

Field	Type	Req	R/O	Base	Search
advanced_polling_settings	struct	N	N	N	N/A
advanced_sdn_polling_settings	struct	N	N	N	N/A
advisor_settings	struct	N	N	N	N/A
auto_conversion_settings	[struct]	N	N	N	N/A
basic_polling_settings	struct	N	N	N	N/A
basic_sdn_polling_settings	struct	N	N	N	N/A
cli_credentials	[struct]	N	N	N	N/A
device_hints	[struct]	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
dns_lookup_option	String	N	N	N	N/A
dns_lookup_throttle	Unsigned int	N	N	N	N/A
enable_advisor	Bool	N	N	N	N/A
enable_auto_conversion	Bool	N	N	N	N/A
enable_auto_updates	Bool	N	N	N	N/A
grid_name	String	N	Y	Y	N/A
ignore_conflict_duration	Unsigned int	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
ports	[struct]	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
snmpv1v2_credentials	[struct]	N	N	N	N/A
snmpv3_credentials	[struct]	N	N	N	N/A
unmanaged_ips_limit	Unsigned int	N	N	N	N/A
unmanaged_ips_timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

vrf_mapping_policy	String	N	N	N	N/A
vrf_mapping_rules	[struct]	N	N	N	N/A

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discovery:gridproperties : The Grid discovery properties object.

Next topic

discovery:sdnnetwork : The SDN network object.

discovery:memberproperties : The Grid discovery member properties object.

The object provides information about the Grid member discovery properties.

Object Reference

References to discovery:memberproperties are object references.

The *name* part of the discovery:memberproperties object reference has the following components:

- The name of the discovery member.

Example (using _ref or UUID):

```
# Using _ref discovery:memberproperties/ZGlzY292ZXJ5Lm1lbWJlcl9kaXNjb3ZlcnlfcHJvcGVydGllcyQxMg:test_discovery.com

# Using UUID discovery:memberproperties/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **discovery_member, uuid**.

address

address

The Grid member address IP address.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

cli_credentials

`cli_credentials`

Discovery CLI credentials.

Type

A/An CLI credential struct array.

Create

The default value is *The default values is inherited from the Grid*.

Search

The field is not available for search.

Notes

cli_credentials is associated with the field use_cli_credentials (see use flag).

default_seed_routers

`default_seed_routers`

Default seed routers.

Type

A/An The seed router structure struct array.

Search

The field is not available for search.

Notes

The default_seed_routers cannot be updated.

default_seed_routers cannot be written.

discovery_member

discovery_member

The name of the network discovery Grid member.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_member is part of the base object.

The discovery_member cannot be updated.

discovery_member cannot be written.

enable_service

enable_service

Determines if the discovery service is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

gateway_seed_routers

gateway_seed_routers

Gateway seed routers.

Type

A/An The seed router structure struct array.

Search

The field is not available for search.

Notes

The gateway_seed_routers cannot be updated.

gateway_seed_routers cannot be written.

is_sa

`is_sa`

Determines if the standalone mode for discovery network monitor is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

role

`role`

Discovery member role.

Type

String.

Valid values are:

- DNM
- DNP
- NONE

Create

The default value is *The default values could be 'DNM' or 'DNP, its value depends on member creation order*.

Search

The field is available for search via

- '=' (exact equality)

scan_interfaces

`scan_interfaces`

Discovery networks to which the member is assigned.

Type

A/An The discovery scan interface structure struct array.

Create

The default value is:

```
[{'network_view': 'default', 'scan_virtual_ip': None, 'type':
'LAN1'}]
```

Search

The field is not available for search.

sdn_configs

`sdn_configs`

List of SDN/SDWAN controller configurations.

Type

A/An The SDN/SDWAN configuration structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

seed_routers

`seed_routers`

Seed routers.

Type

A/An The seed router structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

snmpv1v2_credentials

snmpv1v2_credentials

Discovery SNMP v1 and v2 credentials.

Type

A/An SNMP Credential struct array.

Create

The default value is *The default values is inherited from the Grid*.

Search

The field is not available for search.

Notes

snmpv1v2_credentials is associated with the field use_snmpv1v2_credentials (see use flag).

snmpv3_credentials

snmpv3_credentials

Discovery SNMP v3 credentials.

Type

A/An SNMP v3 Credential struct array.

Create

The default value is *The default values is inherited from the Grid*.

Search

The field is not available for search.

Notes

snmpv3_credentials is associated with the field use_snmpv3_credentials (see use flag).

use_cli_credentials

use_cli_credentials

Use flag for: cli_credentials

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmpv1v2_credentials

`use_snmpv1v2_credentials`

Use flag for: snmpv1v2_credentials

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmpv3_credentials

`use_snmpv3_credentials`

Use flag for: snmpv3_credentials

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
cli_credentials	[struct]	N	N	N	N/A
default_seed_routers	[struct]	N	Y	N	N/A
discovery_member	String	N	Y	Y	=
enable_service	Bool	N	N	N	=
gateway_seed_routers	[struct]	N	Y	N	N/A
is_sa	Bool	N	N	N	=
role	String	N	N	N	=
scan_interfaces	[struct]	N	N	N	N/A
sdn_configs	[struct]	N	N	N	N/A
seed_routers	[struct]	N	N	N	N/A
snmpv1v2_credentials	[struct]	N	N	N	N/A
snmpv3_credentials	[struct]	N	N	N	N/A
use_cli_credentials	Bool	N	N	N	N/A
use_snmpv1v2_credentials	Bool	N	N	N	N/A
use_snmpv3_credentials	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

discovery:sdnnetwork : The SDN network object.
- Object Reference
- Restrictions
- Fields
  - first_seen
  - name
  - network_view
  - source_sdn_config
- Fields List

Previous topic

discovery:memberproperties : The Grid discovery member properties object.

Next topic

discovery:status : Discovery Status object.

discovery:sdnnetwork : The SDN network object.

This object provides information about the SDN networks. They are the elements of address space hierarchy discovered on SDN/SDWAN controllers

Object Reference

References to discovery:sdnnetwork are object references.

The *name* part of the discovery:sdnnetwork object reference has the following components:

- Name of the SDN network

Example: discovery:sdnnetwork/Li5zZG5fbmV0d29yayQyMTQzOQ:DeLab%2FLyoli

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, network_view, source_sdn_config**.

first_seen

`first_seen`

Timestamp when this SDN network was first discovered.

Type

Timestamp.

Search

The field is not available for search.

Notes

The first_seen cannot be updated.

first_seen cannot be written.

name

`name`

The name of the SDN network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

`network_view`

The name of the network view assigned to this SDN network.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

source_sdn_config

`source_sdn_config`

Name of SDN configuration this network belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The source_sdn_config is part of the base object.

The source_sdn_config cannot be updated.

source_sdn_config cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
first_seen	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
network_view	String	N	Y	Y	=
source_sdn_config	String	N	Y	Y	=

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Table of Contents

discovery:status : Discovery Status object.
- Object Reference
- Restrictions
- Fields
  - address
  - cli_collection_enabled
  - cli_credential_info
  - existence_info
  - fingerprint_enabled
  - fingerprint_info
  - first_seen
  - last_action
  - last_seen
  - last_timestamp
  - name
  - network_view
  - reachable_info
  - sdn_collection_enabled
  - sdn_collection_info
  - snmp_collection_enabled
  - snmp_collection_info
  - snmp_credential_info
  - status
  - type
- Fields List

Previous topic

discovery:sdnnetwork : The SDN network object.

Next topic

discovery:vrf : The VRF object.

discovery:status : Discovery Status object.

The discovery status of discovered data

Object Reference

This object does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, name, network_view, status**.

address

`address`

The IPv4 Address or IPv6 Address of the device.

Type

String.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

cli_collection_enabled

`cli_collection_enabled`

Indicates if CLI collection is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The cli_collection_enabled cannot be updated.

cli_collection_enabled cannot be written.

cli_credential_info

`cli_credential_info`

The CLI credential status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The cli_credential_info cannot be updated.

cli_credential_info cannot be written.

existence_info

`existence_info`

The existence status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The existence_info cannot be updated.

existence_info cannot be written.

fingerprint_enabled

`fingerprint_enabled`

Indicates if DHCP fingerprinting is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The fingerprint_enabled cannot be updated.

fingerprint_enabled cannot be written.

fingerprint_info

`fingerprint_info`

This DHCP fingerprinting status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The fingerprint_info cannot be updated.

fingerprint_info cannot be written.

first_seen

`first_seen`

The timestamp when the device was first discovered.

Type

Timestamp.

Search

The field is not available for search.

Notes

The first_seen cannot be updated.

first_seen cannot be written.

last_action

`last_action`

The timestamp of the last detected interface property change.

Type

String.

Search

The field is not available for search.

Notes

The last_action cannot be updated.

last_action cannot be written.

last_seen

`last_seen`

The timestamp when the device was last discovered.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_seen cannot be updated.

last_seen cannot be written.

last_timestamp

last_timestamp

The timestamp of the last executed action for the device.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_timestamp cannot be updated.

last_timestamp cannot be written.

name

name

The name of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

network_view

The name of the network view in which this device resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

reachable_info

`reachable_info`

The reachable status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The reachable_info cannot be updated.

reachable_info cannot be written.

sdn_collection_enabled

`sdn_collection_enabled`

Indicate whether SDN collection enabled for the device.

Type

Bool.

Search

The field is not available for search.

Notes

The sdn_collection_enabled cannot be updated.

sdn_collection_enabled cannot be written.

sdn_collection_info

sdn_collection_info

Device SDN collection status information.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The sdn_collection_info cannot be updated.

sdn_collection_info cannot be written.

snmp_collection_enabled

snmp_collection_enabled

Indicates if SNMP collection is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The snmp_collection_enabled cannot be updated.

snmp_collection_enabled cannot be written.

snmp_collection_info

snmp_collection_info

The SNMP collection status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The snmp_collection_info cannot be updated.

snmp_collection_info cannot be written.

snmp_credential_info

`snmp_credential_info`

The SNMP credential status information of the device.

Type

A/An Status information struct.

Search

The field is not available for search.

Notes

The snmp_credential_info cannot be updated.

snmp_credential_info cannot be written.

status

`status`

The overall status of the device.

Type

String.

Valid values are:

- ERROR
- NOT_REACHABLE
- OK

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

type

`type`

The type of device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The type cannot be updated.

type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	: =
cli_collection_enabled	Bool	N	Y	N	N/A
cli_credential_info	struct	N	Y	N	N/A
existence_info	struct	N	Y	N	N/A
fingerprint_enabled	Bool	N	Y	N	N/A
fingerprint_info	struct	N	Y	N	N/A
first_seen	Timestamp	N	Y	N	N/A
last_action	String	N	Y	N	N/A
last_seen	Timestamp	N	Y	N	N/A
last_timestamp	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: =
network_view	String	N	Y	Y	=
reachable_info	struct	N	Y	N	N/A
sdn_collection_enabled	Bool	N	Y	N	N/A
sdn_collection_info	struct	N	Y	N	N/A
snmp_collection_enabled	Bool	N	Y	N	N/A
snmp_collection_info	struct	N	Y	N	N/A
snmp_credential_info	struct	N	Y	N	N/A
status	String	N	Y	Y	N/A
type	String	N	Y	N	N/A

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Table of Contents

discovery:vrf : The VRF object.
- Object Reference
- Restrictions
- Fields
  - description
  - device
  - name
  - network_view
  - route_distinguisher
- Fields List

Previous topic

discovery:status : Discovery Status object.

Next topic

discoverytask : The discovery task object.

discovery:vrf : The VRF object.

This object provides information about the virtual network membership (VRF).

Object Reference

References to discovery:vrf are object references.

The *name* part of the discovery:vrf object reference has the following components:

- Name of the VRF
- Name of the device

Example: discovery:vrf/ZG5zLmJpbmRfY25h:myvrf/mydevice

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **device, name, network_view, route_distinguisher**.

description

`description`

Additional information about the VRF.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The description cannot be updated.

description cannot be written.

device

`device`

The device to which the VRF belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The device is part of the base object.

The device cannot be updated.

device cannot be written.

name

`name`

The name of the VRF.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

`network_view`

The name of the network view in which this VRF resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

route_distinguisher

`route_distinguisher`

The route distinguisher associated with the VRF.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The route_distinguisher is part of the base object.

The route_distinguisher cannot be updated.

route_distinguisher cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
description	String	N	Y	N	N/A
device	String	N	Y	Y	N/A
name	String	N	Y	Y	: = ~
network_view	String	N	Y	Y	=
route_distinguisher	String	N	Y	Y	N/A

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Table of Contents

discoverytask : The discovery task object.
- Object Reference
- Restrictions
- Fields
  - csv_file_name
  - disable_ip_scanning
  - disable_vmware_scanning
  - discovery_task_oid
  - member_name
  - merge_data
  - mode
  - network_view
  - networks
  - ping_retries
  - ping_timeout
  - scheduled_run
  - state
  - state_time
  - status
  - status_time
  - tcp_ports
  - tcp_scan_technique
  - uuid
  - v_network_view
  - vservers
  - warning
- Function Calls
  - network_discovery_control
- Fields List

Previous topic

discovery:vrf : The VRF object.

Next topic

distributionschedule : Distribution schedule object.

discoverytask : The discovery task object.

Represents the configuration of network discovery jobs. Configuration parameters have control over the behavior of network discovery jobs.

Object Reference

References to discoverytask are object references.

The *name* part of the discovery task object reference has the following components:

- discovery_task_oid

Example (using _ref or UUID):

```
# Using _ref
discoverytask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:current

# Using UUID
discoverytask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **discovery_task_oid, member_name, uuid**.

csv_file_name

`csv_file_name`

The network discovery CSV file name.

Type

String.

Search

The field is not available for search.

Notes

The csv_file_name cannot be updated.

csv_file_name cannot be written.

disable_ip_scanning

`disable_ip_scanning`

Determines whether IP scanning is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_vmware_scanning

`disable_vmware_scanning`

Determines whether VMWare scanning is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discovery_task_oid

`discovery_task_oid`

The discovery task identifier.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_task_oid is part of the base object.

The discovery_task_oid cannot be updated.

discovery_task_oid cannot be written.

member_name

member_name

The Grid member that runs the discovery.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The member_name is part of the base object.

merge_data

merge_data

Determines whether to replace or merge new data with existing data.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

mode

mode

Network discovery scanning mode.

Type

String.

Valid values are:

- CSV
- FULL
- ICMP
- NETBIOS
- TCP

Create

The default value is *FULL*.

Search

The field is not available for search.

network_view

network_view

Name of the network view in which target networks for network discovery reside.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

networks

networks

The list of the networks on which the network discovery will be invoked.

Type

A/An network object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

ping_retries

`ping_retries`

The number of times to perform ping for ICMP and FULL modes.

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

ping_timeout

`ping_timeout`

The ping timeout for ICMP and FULL modes.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

scheduled_run

`scheduled_run`

The schedule setting for network discovery task.

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

state

`state`

The network discovery process state.

Type

String.

Valid values are:

- COMPLETE
- END_PENDING
- ERROR
- PAUSED
- PAUSE_PENDING
- RUNNING

Search

The field is not available for search.

Notes

The state cannot be updated.

state cannot be written.

state_time

`state_time`

Time when the network discovery process state was last updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The state_time cannot be updated.

state_time cannot be written.

status

status

The network discovery process descriptive status.

Type

String.

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

status_time

status_time

The time when the network discovery process status was last updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The status_time cannot be updated.

status_time cannot be written.

tcp_ports

tcp_ports

The ports to scan for FULL and TCP modes.

Type

A/An The network discovery TCP port struct array.

Create

The default value is:

```
  [ {'comment': 'ftp', 'number': 21},
{'comment': 'ssh', 'number': 22},
```

```
{'comment': 'telnet', 'number': 23},
{'comment': 'smtp', 'number': 25},
{'comment': 'finger', 'number': 79},
{'comment': 'http', 'number': 80},
{'comment': 'kerberos-sec', 'number': 88},
{'comment': 'pop3', 'number': 110},
{'comment': 'rpcbind', 'number': 111},
{'comment': 'auth', 'number': 113},
{'comment': 'msrpc', 'number': 135},
{'comment': 'netbios-ns', 'number': 137},
{'comment': 'netbios-dgm', 'number': 138},
{'comment': 'netbios-ssn', 'number': 139},
{'comment': 'imap', 'number': 143},
{'comment': 'https', 'number': 443},
{'comment': 'microsoft-ds', 'number': 445},
{'comment': 'login', 'number': 513},
{'comment': 'shell', 'number': 514},
{'comment': 'printer', 'number': 515},
{'comment': 'klogin', 'number': 543},
{'comment': 'kerberos', 'number': 750},
{'comment': 'kdm', 'number': 1024},
{'comment': 'NFS-or-IIS', 'number': 1025}]
```

Search

The field is not available for search.

tcp_scan_technique

`tcp_scan_technique`

The TCP scan technique for FULL and TCP modes.

Type

String.

Valid values are:

- CONNECT
- SYN

Create

The default value is *SYN*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

v_network_view

`v_network_view`

Name of the network view in which target networks for VMWare scanning reside.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default network view*.

Search

The field is not available for search.

vservers

`vservers`

The list of VMware vSphere servers for VM discovery.

Type

A/An VMWare discovery server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

warning

warning

The network discovery process warning.

Type

String.

Search

The field is not available for search.

Notes

The warning cannot be updated.

warning cannot be written.

Function Calls

network_discovery_control

Use this method to apply a specific action to a network discovery process.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “START”, “PAUSE”, “RESUME”, “END”). This parameter is mandatory. The network discovery action.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
csv_file_name	String	N	Y	N	N/A
disable_ip_scanning	Bool	N	N	N	N/A
disable_vmware_scanning	Bool	N	N	N	N/A
discovery_task_oid	String	N	Y	Y	=
member_name	String	N	N	Y	N/A
merge_data	Bool	N	N	N	N/A
mode	String	N	N	N	N/A
network_view	String	N	N	N	N/A
networks	[obj]	N	N	N	N/A
ping_retries	Unsigned int	N	N	N	N/A

ping_timeout	Unsigned int	N	N	N	N/A
scheduled_run	struct	N	N	N	N/A
state	String	N	Y	N	N/A
state_time	Timestamp	N	Y	N	N/A
status	String	N	Y	N	N/A
status_time	Timestamp	N	Y	N	N/A
tcp_ports	[struct]	N	N	N	N/A
tcp_scan_technique	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
v_network_view	String	N	N	N	N/A
vservers	[struct]	N	N	N	N/A
warning	String	N	Y	N	N/A

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Table of Contents

distributionschedule : Distribution schedule object.
- Object Reference
- Restrictions
- Fields
  - active
  - start_time
  - time_zone
  - upgrade_groups
- Fields List

Previous topic

discoverytask : The discovery task object.

Next topic

dns64group : DNS64 synthesis group object.

distributionschedule : Distribution schedule object.

Distributing the software upgrade files involves unpacking the software files and loading the new software. When you distribute the files, the NIOS appliance loads the new software code into an alternative disk partition that overwrites any previously saved version of existing code. Therefore, starting the distribution disables the appliance from reverting to a release prior to the current version. The Grid Master distributes the software upgrade to each member in the Grid including itself.

When you schedule a distribution, you schedule the distribution of the Grid Master as well as the upgrade groups, including the Default group. The Grid Master distribution must always occur before the distribution of the upgrade groups.

The distribution schedule object provides configuration for scheduled distribution of the software, activation of the schedule, as well as date and time settings.

Object Reference

References to distributionschedule are object references.

The *name* part of the distribution group schedule object reference has the following components:

- The ‘distribution’ string

Example:

distributionschedule/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:distribution

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **active, start_time, time_zone**.

active

active

Determines whether the distribution schedule is active.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The active is part of the base object.

start_time

start_time

The start time of the distribution.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The start_time is part of the base object.

time_zone

time_zone

Time zone of the distribution start time.

Type

String.

Search

The field is not available for search.

Notes

The time_zone is part of the base object.

The time_zone cannot be updated.

time_zone cannot be written.

upgrade_groups

upgrade_groups

The upgrade groups scheduling settings.

Type

A/An Upgrade schedule group structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
active	Bool	N	N	Y	N/A
start_time	Timestamp	N	N	Y	N/A
time_zone	String	N	Y	Y	N/A
upgrade_groups	[struct]	N	N	N	N/A

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dns64group : DNS64 synthesis group object.
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  - enable_dnssec_dns64
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- Fields List

Previous topic

distributionschedule : Distribution schedule object.

Next topic

dtc : DTC object.

dns64group : DNS64 synthesis group object.

To support the increasing number of IPv6 and dual-stack networks, Infoblox DNS servers now support DNS64, a mechanism that synthesizes AAAA records from A records when no AAAA records exist.

The DNS64 synthesis group specifies the IPv6 prefix for the synthesized AAAA records. The Infoblox DNS server provides a default DNS64 synthesis group with the well-known prefix 64:ff9b::/96 which is reserved for representing IPv4 addresses in the IPv6 address space.

Object Reference

References to dns64group are object references.

The *name* part of the DNS64 synthesis group object reference has the following components:

- The name of the DNS64 synthesis group object.

Example (using _ref or UUID):

```
# Using _ref dns64group/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

# Using UUID dns64group/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disable, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

clients

clients

Access Control settings that contain IPv4 and IPv6 DNS clients and networks to which the DNS server is allowed to send synthesized AAAA records with the specified IPv6 prefix.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

comment

`comment`

The descriptive comment for the DNS64 synthesis group object.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the DNS64 synthesis group is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

enable_dnssec_dns64

`enable_dnssec_dns64`

Determines whether the DNS64 synthesis of AAAA records is enabled for DNS64 synthesis groups that request DNSSEC data.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

exclude

`exclude`

Access Control settings that contain IPv6 addresses or prefix ranges that cannot be used by IPv6-only hosts, such as IP addresses in the ::ffff:0:0/96 network. When DNS server retrieves an AAAA record that contains an IPv6 address that matches an excluded address, it does not return the AAAA record. Instead it synthesizes an AAAA record from the A record.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

mapped

`mapped`

Access Control settings that contain IPv4 addresses and networks for which the DNS server can synthesize AAAA records with the specified prefix.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

`name`

The name of the DNS64 synthesis group object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

prefix

`prefix`

The IPv6 prefix used for the synthesized AAAA records. The prefix length must be /32, /40, /48, /56, /64 or /96, and all bits beyond the specified length must be zero.

Type

String.

Create

The default value is *64:ff9b::/96*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
clients	[struct]	N	N	N	N/A
comment	String	N	N	Y	: = ~

disable	Bool	N	N	Y	N/A
enable_dnssec_dns64	Bool	N	N	N	N/A
exclude	[struct]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
mapped	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
prefix	String	N	N	N	= ~
uuid	String	N	Y	Y	: = ~

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Previous topic

dns64group : DNS64 synthesis group object.

Next topic

dtc:allrecords : DTC AllRecords object.

dtc : DTC object.

This object can be used to control the DTC functionality of the appliance.

Object Reference

This object cannot be retrieved from the appliance, hence it does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Read (retrieve)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

The object does not support any fields.

Function Calls

add_certificate

This function is used to upload a DTC certificate. See the file uploading sample code in the manual here and the fileop object for more information.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call in object fileop.

Output fields

None

dtc_get_object_grid_state

As we need to get the information about availability status per DTC grid members this function helps to get such data by DTC object reference link.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

dtc_object (String.). This parameter is mandatory. Displays the list of enabled/disabled grid members for specified object.

Output fields

disabled_on (String array.) List of DTC grid members where specified DTC object is disabled. The default value is “[]”.

enabled_on (String array.) List of DTC grid members where specified DTC object is enabled. The default value is “[]”.

dtc_object_disable

Handles the Disable button action separately instead of updating the DTC object

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

delayed_disable (Bool.). This parameter is mandatory. Flag for postponing disable action after some time.

delayed_disable_time (Unsigned integer.). This parameter is mandatory. Time delay in seconds which will disable for given/specified time.

disable_health_monitoring (Bool.). This parameter is mandatory. Flag for disabling health monitoring activities for DTC object related health checks during the disable action

disable_on (String array.). This parameter is mandatory. List of DTC grid members where to perform the disable action for specified DTC object The default value is “[]”.

disable_timeframe (String. Valid values are: “UNTIL_MANUAL_ENABLING”, “UNTIL_DNS_RESTART”, “FOR_SPECIFIED_TIME”). This parameter is mandatory. Options for how to perform disable action/operation.

dtc_object (String.). This parameter is mandatory. The specified LBDN or DTC pool or DTC server for disabling

specific_time_disable (Unsigned integer.). This parameter is mandatory. Time value to disable for specific period and get the object back online after it

Output fields

failback_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status

dtc_object_enable

Handles the Enable button action separately instead of updating the DTC object

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

dtc_object (String.). This parameter is mandatory. The specified LBDN or DTC pool or DTC server for enabling.

enable_on (String array.). This parameter is mandatory. List of DTC grid members where to perform the enable action for specified DTC object. The default value is “[]”.

Output fields

failback_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status

generate_ea_topology_db

This function is used to generate Topology database using Infoblox extensible attributes attached to DHCP object (Network Container, Network, Range).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

import_maxminddb

This function is used to upload a new Topology DB to Grid Master. See the file uploading sample code in the manual here and the fileop object for more information.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call in object fileop.

Output fields

None

query

Performs a DTC query on a member as though it had come in through DNS and returns the results. DNS service must be running on the target member for this function to succeed.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

address (String.). This parameter is mandatory. An ostensible source address, IPv4 or IPv6.

lbdn (String.). This parameter is mandatory. The specific LBDN to query.

member (String.). This parameter is mandatory. The member to query on.

qname (String.). This parameter is mandatory. Fully-qualified DNS query name..

type (String. Valid values are: “A”, “AAAA”, “NAPTR”, “CNAME”, “SRV”). This parameter is mandatory. The type of desired results.

Output fields

records (A/An Query records struct array.) The records array with result of a query call.

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dtc:allrecords : DTC AllRecords object.
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- Restrictions
- Fields
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  - disable
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- Fields List

Previous topic

dtc : DTC object.

Next topic

dtc:certificate : DTC Certificate object.

dtc:allrecords : DTC AllRecords object.

The DTC AllRecords object is a read-only synthetic object used to retrieve records that belong to a particular DTC server.

Since this is a synthetic object, it is read-only by specifying search parameters, not by specifying a reference.

Object Reference

References to dtc:allrecords are object references. The common *name* part of an allrecords object reference has the following components:

- The name of the DTC Server object with which the record is associated

In addition, corresponding NAPTR allrecord object reference contains following components:

- The order parameter of the record
- The preference of the record
- The replacement field of the record

Example: dtc:allrecords/ZG5zLmJpbmRfY25h:dtcserver/111/222/replacement

A (AAAA) allrecord object references contain following components:

- The IPv4 (IPv6) address of the host

Example: dtc:allrecords/ZG5zLmJpbmRfY25h:dtcserver/10.0.0.1
dtc:allrecords/ZG5zLmJpbmRfY25h:dtcserver/2001:db8::1

CNAME allrecord object reference contains following components:

- The canonical name of the host

Example: dtc:allrecords/ZG5zLmJpbmRfY25h:dtcserver/canonical.localdomain

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete

- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, dtc_server, type**.

comment

`comment`

The record comment.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

disable

`disable`

The disable value determines if the record is disabled or not. "False" means the record is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

The disable cannot be updated.

disable cannot be written.

dtc_server

`dtc_server`

The name of the DTC Server object with which the record is associated.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

dtc_server cannot be written.

record

`record`

The record object, if supported by the WAPI. Otherwise, the value is "None".

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The record cannot be updated.

record cannot be written.

ttl

`ttl`

The TTL value of the record associated with the DTC AllRecords object.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

type

`type`

The record type. When searching for an unspecified record type, the search is performed for all records. On retrieval, the appliance returns “UNSUPPORTED” for unsupported records.

Type

String.

Valid values are:

- ALL
- dtc:record:a
- dtc:record:aaaa
- dtc:record:cname
- dtc:record:naptr
- dtc:record:srv

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	Y	: = ~
disable	Bool	N	Y	N	N/A
dtc_server	String	N	Y	Y	=
record	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
type	String	N	Y	Y	=

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dtc:certificate : DTC Certificate object.
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- Fields List
- Search-only Fields List

Previous topic

dtc:allrecords : DTC AllRecords object.

Next topic

dtc:lbdn : DTC LBDN object.

dtc:certificate : DTC Certificate object.

These are DTC health monitor certificates.

Object Reference

References to dtc:certificate are object references.

The *name* part of the DTC Certificate object reference has the following components:

- Name of DTC Certificate

Example (using _ref or UUID):

```
# Using _ref
dtc:certificate/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCcert1

# Using UUID
dtc:certificate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

certificate

`certificate`

Reference to underlying X509Certificate.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The certificate cannot be updated.

certificate cannot be written.

in_use

`in_use`

Determines whether the certificate is in use or not.

Type

Bool.

Search

The field is not available for search.

Notes

The in_use cannot be updated.

in_use cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

certificate.issuer

`certificate.`**`issuer`**

The issuer of the certificate to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

certificate.issuer is a search-only field.

certificate.serial

`certificate.`**`serial`**

The serial number of the certificate to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

certificate.serial is a search-only field.

certificate.subject

`certificate.`**`subject`**

The Distinguished Name of the certificate to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

certificate.subject is a search-only field.

certificate.valid_not_after

`certificate.`**`valid_not_after`**

The expiry date of the certificate to search for.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

certificate.valid_not_after is a search-only field.

certificate.valid_not_before

`certificate.`**`valid_not_before`**

The validity start date of the certificate to search for.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

certificate.valid_not_before is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
certificate	String	N	Y	N	N/A
in_use	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
certificate.issuer	String	: = ~
certificate.serial	String	: = ~
certificate.subject	String	: = ~
certificate.valid_not_after	Timestamp	! < = >
certificate.valid_not_before	Timestamp	! < = >

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dtc:lbdn : DTC LBDN object.
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  - auto_consolidated_monitors
  - comment
  - disable
  - extattrs
  - health
  - lb_method
  - name
  - patterns
  - persistence
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- Search-only Fields
  - fqdn
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- Fields List
- Search-only Fields List

Previous topic

dtc:certificate : DTC Certificate object.

Next topic

dtc:monitor : DTC monitor object.

dtc:lbdn : DTC LBDN object.

Load Balanced Domain Name (LBDN) is a Load balanced domain name record type, which is served by Infoblox Name Servers. LBDN is a qualified domain name associated with a specific service such as ftp.abc.com or www.abc.com.

Object Reference

References to dtc:lbdn are object references. The *name* part of a DTC LBDN object reference has the following components:

- Name of DTC LBDN

Example (using _ref or UUID):

```
# Using _ref dtc:lbdn/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCLBDN1

# Using UUID dtc:lbdn/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
lb_method	
name	
pools	See the field description for more information
topology	See the field description for more information

auth_zones

auth_zones

List of linked auth zones.

Type

A/An zone_auth object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

auto_consolidated_monitors

`auto_consolidated_monitors`

Flag for enabling auto managing DTC Consolidated Monitors on related DTC Pools.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

`comment`

Comment for the DTC LBDN; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the DTC LBDN is disabled or not. When this is set to False, the fixed address is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

health

`health`

The LBDN health information.

Type

A/An Health information struct.

Search

The field is not available for search.

Notes

The health cannot be updated.

health cannot be written.

lb_method

`lb_method`

The load balancing method. Used to select pool.

Type

String.

Valid values are:

- GLOBAL_AVAILABILITY
- RATIO
- ROUND_ROBIN
- SOURCE_IP_HASH
- TOPOLOGY

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The display name of the DTC LBDN, not DNS related.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

patterns

`patterns`

LBDN wildcards for pattern match.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

persistence

`persistence`

Maximum time, in seconds, for which client specific LBDN responses will be cached. Zero specifies no caching.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

pools

`pools`

Pools linked to LBDN.

Type

A/An DTC Pool link struct array.

Create

The field is required only when lb_method is set to other than TOPOLOGY.

Search

The field is not available for search.

priority

`priority`

The LBDN pattern match priority for “overlapping” DTC LBDN objects. LBDNs are “overlapping” if they are simultaneously assigned to a zone and have patterns that can match the same FQDN. The matching LBDN with highest priority (lowest ordinal) will be used.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

topology

`topology`

The topology rules for TOPOLOGY method.

Type

String.

This field supports nested return fields as described here.

Create

The field is required only when lb_method is set to TOPOLOGY.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for the DTC LBDN. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

types

`types`

The list of resource record types supported by LBDN.

Type

Enum values array.

Valid values are:

- A
- AAAA
- CNAME
- NAPTR
- SRV

Create

The default value is *['A', 'AAAA']*.

Search

The field is not available for search.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

fqdn

`fqdn`

The FQDN of the DTC LBDN.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

fqdn is a search-only field.

status_member

`status_member`

The grid member name to search for.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

status_member is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
auth_zones	[obj]	N	N	N	N/A
auto_consolidated_monitors	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
health	struct	N	Y	N	N/A
lb_method	String	Y	N	N	N/A
name	String	Y	N	Y	: = ~
patterns	[String]	N	N	N	N/A
persistence	Unsigned int	N	N	N	N/A
pools	[struct]	Y*	N	N	N/A
priority	Unsigned int	N	N	N	N/A
topology	String	Y*	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
types	[Enum]	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
fqdn	String	=
status_member	String	=

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dtc:monitor : DTC monitor object.
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- Fields List

Previous topic

dtc:lbdn : DTC LBDN object.

Next topic

dtc:monitor:http : DTC HTTP monitor object.

dtc:monitor : DTC monitor object.

The DTC Monitor object is used to determine the health of a server by evaluating the response to a health request.

Object Reference

References to dtc:monitor are object references.

The *name* part of a DTC monitor object reference has the following components:

- Name of the DTC monitor

Example:
dtc:monitor/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCTcp1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, type**.

comment

`comment`

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

monitor

`monitor`

The actual monitor object.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

port

`port`

The health monitor port value.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

retry_down

`retry_down`

The number of how many times the server should appear as “DOWN” to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

retry_up

`retry_up`

The number of many times the server should appear as “UP” to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

type

`type`

The request transport type.

Type

String.

Valid values are:

- HTTP
- ICMP
- PDP
- SIP
- SNMP
- TCP

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The type is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
monitor	String	N	N	N	N/A
name	String	N	N	Y	: = ~
port	Unsigned int	N	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
type	String	N	N	Y	N/A

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dtc:monitor:http : DTC HTTP monitor object.
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  - ciphers
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  - content_check_input
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  - content_check_regex
  - content_extract_group
  - content_extract_type
  - content_extract_value
  - enable_sni
  - extattrs
  - interval
  - name
  - port
  - request
  - result
  - result_code
  - retry_down
  - retry_up
  - secure
  - timeout
  - uuid
  - validate_cert
- Fields List

Previous topic

dtc:monitor : DTC monitor object.

Next topic

dtc:monitor:icmp : DTC ICMP monitor object.

dtc:monitor:http : DTC HTTP monitor object.

The DTC HTTP monitor object is used to determine the health of a HTTP service by first sending a specific http message to a server and then examining the response received from the server. The validation is successful if the received response matches the expected message.

Object Reference

References to dtc:monitor:http are object references. The *name* part of a DTC HTTP monitor object reference has the following components:

- Name of DTC HTTP monitor

Example:

```
# Using _ref: dtc:monitor:http/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCHttp1

# Using UUID: dtc:monitor:http/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

ciphers

ciphers

An optional cipher list for a secure HTTP/S connection.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

client_cert

client_cert

An optional client certificate, supplied in a secure HTTP/S mode if present.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

comment

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

content_check

`content_check`

The content check type.

Type

String.

Valid values are:

- EXTRACT
- MATCH
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

content_check_input

`content_check_input`

A portion of response to use as input for content check.

Type

String.

Valid values are:

- ALL
- BODY
- HEADERS

Create

The default value is *ALL*.

Search

The field is not available for search.

content_check_op

`content_check_op`

A content check success criteria operator.

Type

String.

Valid values are:

- EQ
- GEQ
- LEQ
- NEQ

Create

The default value is *empty*.

Search

The field is not available for search.

content_check_regex

`content_check_regex`

A content check regular expression.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

content_extract_group

`content_extract_group`

A content extraction sub-expression to extract.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

content_extract_type

`content_extract_type`

A content extraction expected type for the extracted data.

Type

String.

Valid values are:

- INTEGER
- STRING

Create

The default value is *STRING*.

Search

The field is not available for search.

content_extract_value

`content_extract_value`

A content extraction value to compare with extracted result.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_sni

enable_sni

Determines whether the Server Name Indication (SNI) for HTTPS monitor is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

interval

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

port

`port`

Port for TCP requests.

Type

Unsigned integer.

Create

The default value is *80*.

Search

The field is not available for search.

request

`request`

An HTTP request to send.

Type

String.

Create

The default value is *GET /*.

Search

The field is not available for search.

result

`result`

The type of an expected result.

Type

String.

Valid values are:

- ANY
- CODE_IS
- CODE_IS_NOT

Create

The default value is *ANY*.

Search

The field is not available for search.

result_code

`result_code`

The expected return code.

Type

Unsigned integer.

Create

The default value is *200*.

Search

The field is not available for search.

retry_down

`retry_down`

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

secure

`secure`

The connection security status.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

validate_cert

`validate_cert`

Determines whether the validation of the remote server's certificate is enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
ciphers	String	N	N	N	N/A
client_cert	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
content_check	String	N	N	N	N/A
content_check_input	String	N	N	N	N/A
content_check_op	String	N	N	N	N/A
content_check_regex	String	N	N	N	N/A
content_extract_group	Unsigned int	N	N	N	N/A
content_extract_type	String	N	N	N	N/A
content_extract_value	String	N	N	N	N/A
enable_sni	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
port	Unsigned int	N	N	N	N/A
request	String	N	N	N	N/A
result	String	N	N	N	N/A
result_code	Unsigned int	N	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
secure	Bool	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
validate_cert	Bool	N	N	N	N/A

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Table of Contents

dtc:monitor:icmp : DTC ICMP monitor object.
- Object Reference
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- Fields List

Previous topic

dtc:monitor:http : DTC HTTP monitor object.

Next topic

dtc:monitor:pdp : DTC PDP monitor object.

dtc:monitor:icmp : DTC ICMP monitor object.

The DTC ICMP monitor object is used to determine the health of a server by monitoring the response to an ICMP ping.

Object Reference

References to dtc:monitor:icmp are object references. The *name* part of a DTC ICMP monitor object reference has the following components:

- Name of DTC ICMP monitor

Example:

```
# Using _ref:
dtc:monitor:icmp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCIcmp1

# Using UUID:
dtc:monitor:icmp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

retry_down

`retry_down`

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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dtc:monitor:pdp : DTC PDP monitor object.
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  - comment
  - extattrs
  - interval
  - name
  - port
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  - retry_up
  - timeout
  - uuid
- Fields List

Previous topic

dtc:monitor:icmp : DTC ICMP monitor object.

Next topic

dtc:monitor:sip : DTC SIP monitor object.

dtc:monitor:pdp : DTC PDP monitor object.

The DTC PDP monitor object is used to determine the health of a server by sending a PDP ECHO and considering a valid reply to mean that service is available.

Object Reference

References to dtc:monitor:pdp are object references. The *name* part of a DTC PDP monitor object reference has the following components:

- Name of DTC PDP monitor

Example:

```
# Using _ref:
dtc:monitor:pdp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCPdp1

# Using UUID:
dtc:monitor:pdp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

comment

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

port

`port`

The port value for PDP requests.

Type

Unsigned integer.

Create

The default value is *2123*.

Search

The field is not available for search.

retry_down

`retry_down`

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
port	Unsigned int	N	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

dtc:monitor:sip : DTC SIP monitor object.
- Object Reference
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  - client_cert
  - comment
  - extattrs
  - interval
  - name
  - port
  - request
  - result
  - result_code
  - retry_down
  - retry_up
  - timeout
  - transport
  - uuid
  - validate_cert
- Fields List

Previous topic

dtc:monitor:pdp : DTC PDP monitor object.

Next topic

dtc:monitor:snmp : DTC SNMP monitor object.

dtc:monitor:sip : DTC SIP monitor object.

The DTC SIP monitor object is used to determine the health of a SIP server such as SIP Proxies and Session Border Controllers, and SIP gateways by issuing SIP options to a server and examining the response provided by the server. The service is considered available If the received response matches the expected response.

Object Reference

References to dtc:monitor:sip are object references. The *name* part of a DTC SIP monitor object reference has the following components:

- Name of DTC SIP monitor

Example:

```
# Using _ref:
dtc:monitor:sip/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCSip1

# Using UUID:
dtc:monitor:sip/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

ciphers

`ciphers`

An optional cipher list for secure TLS/SIPS connection.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

client_cert

`client_cert`

An optional client certificate, supplied in TLS and SIPS mode if present.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

port

`port`

The port value for SIP requests.

Type

Unsigned integer.

Create

The default value is *5060*.

Search

The field is not available for search.

request

`request`

A SIP request to send

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

result

`result`

The type of an expected result.

Type

String.

Valid values are:

- ANY
- CODE_IS
- CODE_IS_NOT

Create

The default value is *CODE_IS*.

Search

The field is not available for search.

result_code

`result_code`

The expected return code value.

Type

Unsigned integer.

Create

The default value is *200*.

Search

The field is not available for search.

retry_down

`retry_down`

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

transport

`transport`

The transport layer protocol to use for SIP check.

Type

String.

Valid values are:

- SIPS
- TCP
- TLS
- UDP

Create

The default value is *TCP*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

validate_cert

`validate_cert`

Determines whether the validation of the remote server's certificate is enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
ciphers	String	N	N	N	N/A
client_cert	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
port	Unsigned int	N	N	N	N/A
request	String	N	N	N	N/A
result	String	N	N	N	N/A
result_code	Unsigned int	N	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
transport	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
validate_cert	Bool	N	N	N	N/A

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dtc:monitor:snmp : DTC SNMP monitor object.
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- Fields List

Previous topic

dtc:monitor:sip : DTC SIP monitor object.

Next topic

dtc:monitor:tcp : DTC TCP monitor object.

dtc:monitor:snmp : DTC SNMP monitor object.

The DTC SNMP Health Monitor determines the health of SNMP servers, such as SNMP Proxies and Session Border Controllers, and SNMP gateways by issuing SNMP options to a server and examining the response sent by the server. The service is considered available if the returned response matches the expected response.

Object Reference

References to dtc:monitor:snmp are object references. The *name* part of a DTC SNMP monitor object reference has the following components:

- Name of DTC SNMP monitor

Example:

```
# Using _ref:
dtc:monitor:snmp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCSnmp1

# Using UUID:
dtc:monitor:snmp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

community

`community`

The SNMP community string for SNMP authentication.

Type

String.

Create

The default value is *public*.

Search

The field is not available for search.

context

`context`

The SNMPv3 context.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

engine_id

`engine_id`

The SNMPv3 engine identifier.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

oids

oids

A list of OIDs for SNMP monitoring.

Type

A/An DTC SNMP Monitor OID struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

port

port

The port value for SNMP requests.

Type

Unsigned integer.

Create

The default value is *161*.

Search

The field is not available for search.

retry_down

retry_down

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

user

`user`

The SNMPv3 user setting.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

The SNMP protocol version for the SNMP health check.

Type

String.

Valid values are:

- V1
- V2C
- V3

Create

The default value is *V2C*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search

comment	String	N	N	Y	: = ~
community	String	N	N	N	N/A
context	String	N	N	N	: = ~
engine_id	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
oids	[struct]	N	N	N	N/A
port	Unsigned int	N	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
user	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
version	String	N	N	N	N/A

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dtc:monitor:tcp : DTC TCP monitor object.
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- Fields List

Previous topic

dtc:monitor:snmp : DTC SNMP monitor object.

Next topic

dtc:object : DTC object.

dtc:monitor:tcp : DTC TCP monitor object.

The DTC TCP monitor object is used to determine the health of a server by evaluating the response to a TCP request.

Object Reference

References to dtc:monitor:tcp are object references. The *name* part of a DTC TCP monitor object reference has the following components:

- Name of DTC TCP monitor

Example:

```
# Using _ref: dtc:monitor:tcp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCTcp1

# Using UUID: dtc:monitor:tcp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	
port	

comment

`comment`

Comment for this DTC monitor; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

interval

`interval`

The interval for a health check.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

name

`name`

The display name for this DTC monitor.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

port

`port`

The port value for TCP requests.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

retry_down

`retry_down`

The value of how many times the server should appear as down to be treated as dead after it was alive.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

retry_up

`retry_up`

The value of how many times the server should appear as up to be treated as alive after it was dead.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

timeout

`timeout`

The timeout for a health check in seconds.

Type

Unsigned integer.

Create

The default value is *15*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
interval	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
port	Unsigned int	Y	N	N	N/A
retry_down	Unsigned int	N	N	N	N/A
retry_up	Unsigned int	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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dtc:object : DTC object.
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Previous topic

dtc:monitor:tcp : DTC TCP monitor object.

Next topic

dtc:pool : DTC Pool object.

dtc:object : DTC object.

An object for all load balancer managed DTC objects.

Object Reference

References to dtc:object are object references.

The *name* part of a DTC object reference has the following components:

- Name of DTC object

Example:
dtc:object/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCobject1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **abstract_type, comment, display_type, name, status**.

abstract_type

`abstract_type`

The abstract object type.

Type

String.

Search

The field is not available for search.

Notes

The abstract_type is part of the base object.

The abstract_type cannot be updated.

abstract_type cannot be written.

comment

`comment`

The comment for the DTC object; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

display_type

`display_type`

The display object type.

Type

String.

Search

The field is not available for search.

Notes

The display_type is part of the base object.

The display_type cannot be updated.

display_type cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4_address_list

`ipv4_address_list`

The list of IPv4 addresses.

Type

String array.

Search

The field is not available for search.

Notes

The ipv4_address_list cannot be updated.

ipv4_address_list cannot be written.

ipv6_address_list

ipv6_address_list

The list of IPv6 addresses.

Type

String array.

Search

The field is not available for search.

Notes

The ipv6_address_list cannot be updated.

ipv6_address_list cannot be written.

name

name

The display name of the DTC object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

object

object

The specific DTC object.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The object cannot be updated.

object cannot be written.

status

`status`

The availability color status.

Type

String.

Valid values are:

- BLUE
- GRAY
- GREEN
- NONE
- RED
- YELLOW

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

status_time

`status_time`

The timestamp when status or health was last determined.

Type

Timestamp.

Search

The field is not available for search.

Notes

The status_time cannot be updated.

status_time cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

status_member

`status_member`

The name of the status member to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

status_member is a search-only field.

type

`type`

The type of the managed object to search for.

Type

String.

Valid values are:

- LBDN
- POOL
- SERVER

Search

The field is available for search via

- '=' (exact equality)

Notes

type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
abstract_type	String	N	Y	Y	N/A
comment	String	N	Y	Y	: = ~
display_type	String	N	Y	Y	N/A
extattrs	Extattr	N	N	N	ext
ipv4_address_list	[String]	N	Y	N	N/A
ipv6_address_list	[String]	N	Y	N	N/A
name	String	N	Y	Y	: = ~
object	String	N	Y	N	N/A
status	String	N	Y	Y	N/A
status_time	Timestamp	N	Y	N	N/A

Search-only Fields List

Field	Type	Search
status_member	String	: = ~
type	String	=

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- Search-only Fields List

Previous topic

dtc:object : DTC object.

Next topic

dtc:record:a : DTC A Record object.

dtc:pool : DTC Pool object.

The collection of IDNS resources (virtual servers).

Object Reference

References to dtc:pool are object references. The *name* part of a DTC Pool object reference has the following components:

- Name of DTC Pool

Example (using _ref or UUID):

```
# Using _ref
dtc:pool/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCPool1

# Using UUID dtc:pool/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
lb_dynamic_ratio_preferred	See the field description for more information
lb_preferred_method	
name	
servers	See the field description for more information

auto_consolidated_monitors

`auto_consolidated_monitors`

Flag for enabling auto managing DTC Consolidated Monitors in DTC Pool.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

availability

`availability`

A resource in the pool is available if ANY, at least QUORUM, or ALL monitors for the pool say that it is up.

Type

String.

Valid values are:

- ALL
- ANY
- QUORUM

Create

The default value is *ALL*.

Search

The field is not available for search.

comment

`comment`

The comment for the DTC Pool; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

consolidated_monitors

`consolidated_monitors`

List of monitors and associated members statuses of which are shared across members and consolidated in server availability determination.

Type

A/An Consolidated monitor health structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

disable

`disable`

Determines whether the DTC Pool is disabled or not. When this is set to False, the fixed address is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following

information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

health

`health`

The health status.

Type

A/An Health information struct.

Search

The field is not available for search.

Notes

The health cannot be updated.

health cannot be written.

lb_alternate_method

`lb_alternate_method`

The alternate load balancing method. Use this to select a method type from the pool if the preferred method does not return any results.

Type

String.

Valid values are:

- ALL_AVAILABLE
- DYNAMIC_RATIO
- GLOBAL_AVAILABILITY
- NONE
- RATIO

- ROUND_ROBIN
- SOURCE_IP_HASH
- TOPOLOGY

Create

The default value is *undefined*.

Search

The field is not available for search.

lb_alternate_topology

`lb_alternate_topology`

The alternate topology for load balancing.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

lb_dynamic_ratio_alternate

`lb_dynamic_ratio_alternate`

The DTC Pool settings for dynamic ratio when it's selected as alternate method.

Type

A/An Dynamic Ratio Setting for DTC Pool struct.

Create

The default value is:

```
  { 'invert_monitor_metric': False,
'method': 'MONITOR',
'monitor_weighing': 'RATIO'}
```

Search

The field is not available for search.

lb_dynamic_ratio_preferred

lb_dynamic_ratio_preferred

The DTC Pool settings for dynamic ratio when it's selected as preferred method.

Type

A/An Dynamic Ratio Setting for DTC Pool struct.

Create

The field is required only when lb_preferred_method is set to DYNAMIC_RATIO.

Search

The field is not available for search.

lb_preferred_method

lb_preferred_method

The preferred load balancing method. Use this to select a method type from the pool.

Type

String.

Valid values are:

- ALL_AVAILABLE
- DYNAMIC_RATIO
- GLOBAL_AVAILABILITY
- RATIO
- ROUND_ROBIN
- SOURCE_IP_HASH
- TOPOLOGY

Create

The field is required on creation.

Search

The field is not available for search.

lb_preferred_topology

lb_preferred_topology

The preferred topology for load balancing.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

monitors

`monitors`

The monitors related to pool.

Type

An array of the following objects: dtc:monitor:http, dtc:monitor:icmp, dtc:monitor:tcp, dtc:monitor:pdp, dtc:monitor:sip, dtc:monitor:snmp.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

name

`name`

The DTC Pool display name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

quorum

quorum

For availability mode QUORUM, at least this many monitors must report the resource as up for it to be available

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

servers

servers

The servers related to the pool.

Type

A/An DTC Server link struct array.

Create

The field is required only when lb_method is set to other than TOPOLOGY.

Search

The field is not available for search.

ttl

ttl

The Time To Live (TTL) value for the DTC Pool. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual

members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

status_member

`status_member`

The name of the status member to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

status_member is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
auto_consolidated_monitors	Bool	N	N	N	N/A
availability	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
consolidated_monitors	[struct]	N	N	N	N/A
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
health	struct	N	Y	N	N/A
lb_alternate_method	String	N	N	N	N/A
lb_alternate_topology	String	N	N	N	N/A
lb_dynamic_ratio_alternate	struct	N	N	N	N/A
lb_dynamic_ratio_preferred	struct	Y*	N	N	N/A
lb_preferred_method	String	Y	N	N	N/A
lb_preferred_topology	String	N	N	N	N/A
monitors	obj	N	N	N	N/A
name	String	Y	N	Y	: = ~
quorum	Unsigned int	N	N	N	N/A
servers	[struct]	N	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
status_member	String	: = ~

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Table of Contents

dtc:record:a : DTC A Record object.
- Note
- Object Reference
- Restrictions
- Fields
  - auto_created
  - comment
  - disable
  - dtc_server
  - ipv4addr
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

dtc:pool : DTC Pool object.

Next topic

dtc:record:aaaa : DTC AAAA Record object.

dtc:record:a : DTC A Record object.

A DTC A object represents a DNS Traffic Control Address (DTC A) resource record. This resource record specifies mapping from domain name to IPv4 address.

Note

Parameter dtc_server is required for object searches.

Object Reference

References to dtc:record:a are object references.

The *name* part of the DTC A Record object reference has the following components:

- The name of the DTC Server object with which the record is associated
- The IPv4 address of the DTC A record

Example:

```
# Using _ref:
dtc:record:a/ZG5zLmJpbmRfY25h:dtcserver/10.0.0.1

# Using UUID:
dtc:record:a/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dtc_server, ipv4addr, uuid**.

The following fields are required to create this object:

Field	Notes
dtc_server	
ipv4addr	

auto_created

`auto_created`

Flag that indicates whether this record was automatically created by NIOS.

Type

String.

Search

The field is not available for search.

Notes

The auto_created cannot be updated.

auto_created cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dtc_server

dtc_server

The name of the DTC Server object with which the DTC record is associated.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

ipv4addr

ipv4addr

The IPv4 Address of the domain name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
auto_created	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dtc_server	String	Y	N	Y	=
ipv4addr	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

dtc:record:aaaa : DTC AAAA Record object.
- Note
- Object Reference
- Restrictions
- Fields
  - auto_created
  - comment
  - disable
  - dtc_server
  - ipv6addr
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

dtc:record:a : DTC A Record object.

Next topic

dtc:record:cname : DTC CNAME Record object.

dtc:record:aaaa : DTC AAAA Record object.

A DTC AAAA object represents a DNS Traffic Control IPv6 Address (DTC AAAA) resource record. This resource record specifies mapping from domain name to IPv6 address.

Note

Parameter dtc_server is required for object searches.

Object Reference

References to dtc:record:aaaa are object references.

The *name* part of the DTC AAAA Record object reference has the following components:

- The name of the DTC Server object with which the record is associated
- The IPv6 address of the DTC AAAA record

Example:

```
# Using _ref:
dtc:record:aaaa/ZG5zLmJpbmRfY25h:dtcserver/2001:db8::1

# Using UUID:
dtc:record:aaaa/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dtc_server, ipv6addr, uuid**.

The following fields are required to create this object:

Field	Notes
dtc_server	
ipv6addr	

auto_created

`auto_created`

Flag that indicates whether this record was automatically created by NIOS.

Type

String.

Search

The field is not available for search.

Notes

The auto_created cannot be updated.

auto_created cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dtc_server

dtc_server

The name of the DTC Server object with which the DTC record is associated.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

ipv6addr

ipv6addr

The IPv6 Address of the domain name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
auto_created	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dtc_server	String	Y	N	Y	=
ipv6addr	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

dtc:record:cname : DTC CNAME Record object.
- Note
- Object Reference
- Restrictions
- Fields
  - auto_created
  - canonical
  - comment
  - disable
  - dns_canonical
  - dtc_server
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

dtc:record:aaaa : DTC AAAA Record object.

Next topic

dtc:record:naptr : DTC NAPTR Record object.

dtc:record:cname : DTC CNAME Record object.

A DTC CNAME object represents a DNS Traffic Control Canonical name (DTC CNAME) resource record. DTC CNAME record maps domain name alias to its canonical domain name.

Note

Parameter dtc_server is required for object searches.

Object Reference

References to dtc:record:cname are object references.

The *name* part of the DTC CNAME Record object reference has the following components:

- The name of the DTC Server object with which the record is associated
- The canonical name of the DTC CNAME record

Example:

```
# Using _ref:
dtc:record:cname/ZG5zLmJpbmRfY25h:dtcserver/dtc.localdomain

# Using UUID:
dtc:record:cname/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, dtc_server, uuid**.

The following fields are required to create this object:

Field	Notes
canonical	
dtc_server	

auto_created

`auto_created`

Flag that indicates whether this record was automatically created by NIOS.

Type

String.

Search

The field is not available for search.

Notes

The auto_created cannot be updated.

auto_created cannot be written.

canonical

`canonical`

The canonical name of the host.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_canonical

`dns_canonical`

The canonical name as server by DNS protocol.

Type

String.

Search

The field is not available for search.

Notes

The dns_canonical cannot be updated.

dns_canonical cannot be written.

dtc_server

`dtc_server`

The name of the DTC Server object with which the DTC record is associated.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
auto_created	String	N	Y	N	N/A
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_canonical	String	N	Y	N	N/A
dtc_server	String	Y	N	Y	=
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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dtc:record:naptr : DTC NAPTR Record object.
- Note
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - dtc_server
  - flags
  - order
  - preference
  - regexp
  - replacement
  - services
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

dtc:record:cname : DTC CNAME Record object.

Next topic

dtc:record:srv : DTC SRV Record object.

dtc:record:naptr : DTC NAPTR Record object.

A DTC NAPTR object represents a DNS Traffic Control Naming Authority Pointer (DTC NAPTR) resource record. This resource record specifies a regular expression-based rewrite rule that, when applied to an existing string, produces a new domain name or URI.

Note

Parameter dtc_server is required for object searches.

Object Reference

References to dtc:record:naptr are object references.

The *name* part of the DTC NAPTR Record object reference has the following components:

- The name of the DTC Server object with which the record is associated
- The order parameter of the record
- The preference of the record
- The replacement field of the record

Example:

```
# Using _ref: dtc:record:naptr/ZG5zLmJpbmRfY25h:dtcserver/111/222/replacement

# Using UUID: dtc:record:naptr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dtc_server, order, preference, regexp, replacement, services, uuid**.

The following fields are required to create this object:

Field	Notes
dtc_server	
order	
preference	
replacement	

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dtc_server

`dtc_server`

The name of the DTC Server object with which the DTC record is

associated.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

flags

`flags`

The flags used to control the interpretation of the fields for an NAPTR record object. Supported values for the flags field are “U”, “S”, “P” and “A”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

order

`order`

The order parameter of the NAPTR records. This parameter specifies the order in which the NAPTR rules are applied when multiple rules are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The order is part of the base object.

preference

`preference`

The preference of the NAPTR record. The preference field determines the order the NAPTR records are processed when multiple records with the same order parameter are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The preference is part of the base object.

regexp

`regexp`

The regular expression-based rewriting rule of the NAPTR record. This should be a POSIX compliant regular expression, including the substitution rule and flags. Refer to RFC 2915 for the field syntax details.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is not available for search.

Notes

The regexp is part of the base object.

replacement

`replacement`

The replacement field of the NAPTR record object. For nonterminal NAPTR records, this field specifies the next domain name to look up. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The replacement is part of the base object.

services

`services`

The services field of the NAPTR record object; maximum 128 characters. The services field contains protocol and service identifiers, such as "http+E2U" or "SIPS+D2T".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The services is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dtc_server	String	Y	N	Y	=
flags	String	N	N	N	: = ~
order	Unsigned int	Y	N	Y	< = >
preference	Unsigned int	Y	N	Y	< = >
regexp	String	N	N	Y	N/A
replacement	String	Y	N	Y	= ~
services	String	N	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

dtc:record:srv : DTC SRV Record object.
- Note
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - dtc_server
  - name
  - port
  - priority
  - target
  - ttl
  - use_ttl
  - uuid
  - weight
- Fields List

Previous topic

dtc:record:naptr : DTC NAPTR Record object.

Next topic

dtc:server : DTC Server object.

dtc:record:srv : DTC SRV Record object.

A DTC SRV object represents a DNS Traffic Control (DTC SRV) resource record. This resource record provides information on available services.

Note

Parameter dtc_server is required for object searches.

Object Reference

References to dtc:record:srv are object references.

The *name* part of the DTC SRV Record object reference has the following components:

- The name of the DTC Server object with which the record is associated
- The name of the DTC SRV record, service, protocol, and domain.
- The port of the DTC SRV record.
- The priority of the DTC SRV record.
- The weight of the DTC SRV record.
- The target of the DTC SRV record.

Example:

```
# Using _ref: dtc:record:srv/ZG5zLmJf5h:dtcserver/_http._tcp.test.com/7888/12/13/trgt.com

# Using UUID: dtc:record:srv/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dtc_server, name, port, priority, target, uuid, weight**.

The following fields are required to create this object:

Field	Notes
dtc_server	

port
priority
target
weight

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dtc_server

`dtc_server`

The name of the DTC Server object with which the DTC record is associated.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The dtc_server is part of the base object.

The dtc_server cannot be updated.

name

`name`

The name for an SRV record in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

port

`port`

The port of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)

'>=' (greater than search)
- '=' (exact equality)

Notes

The port is part of the base object.

priority

`priority`

The priority of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The priority is part of the base object.

target

`target`

The target of the SRV record in FQDN format. This value can be in unicode format.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The target is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

weight

`weight`

The weight of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The weight is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dtc_server	String	Y	N	Y	=
name	String	N	N	Y	: = ~
port	Unsigned int	Y	N	Y	< = >
priority	Unsigned int	Y	N	Y	< = >
target	String	Y	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
weight	Unsigned int	Y	N	Y	< = >

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dtc:server : DTC Server object.
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  - comment
  - disable
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  - health
  - host
  - monitors
  - name
  - sni_hostname
  - use_sni_hostname
  - uuid
- Search-only Fields
  - status_member
- Fields List
- Search-only Fields List

Previous topic

dtc:record:srv : DTC SRV Record object.

Next topic

dtc:topology : DTC Topology object.

dtc:server : DTC Server object.

This is a DTC Server. Aka resource, virtual server or pool member.

Object Reference

References to dtc:server are object references. The *name* part of a DTC Server object reference has the following components:

- Name of DTC Server

Example (using _ref or UUID):

```
# Using _ref
dtc:server/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCServer1

# Using UUID
dtc:server/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, host, name, uuid**.

The following fields are required to create this object:

Field	Notes
host	
name	

auto_create_host_record

`auto_create_host_record`

Enabling this option will auto-create a single read-only A/AAAA/CNAME record corresponding to the configured

hostname and update it if the hostname changes.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

comment

`comment`

Comment for the DTC Server; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the DTC Server is disabled or not. When this is set to False, the fixed address is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

health

`health`

The health status.

Type

A/An Health information struct.

Search

The field is not available for search.

Notes

The health cannot be updated.

health cannot be written.

host

`host`

The address or FQDN of the server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The host is part of the base object.

monitors

`monitors`

List of IP/FQDN and monitor pairs to be used for additional monitoring.

Type

A/An DTC Server Monitor struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

`name`

The DTC Server display name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

sni_hostname

`sni_hostname`

The hostname for Server Name Indication (SNI) in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

sni_hostname is associated with the field use_sni_hostname (see use flag).

use_sni_hostname

`use_sni_hostname`

Use flag for: sni_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

status_member

`status_member`

The name of the status member to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

status_member is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
auto_create_host_record	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
health	struct	N	Y	N	N/A
host	String	Y	N	Y	: = ~
monitors	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
sni_hostname	String	N	N	N	: = ~
use_sni_hostname	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
status_member	String	: = ~

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dtc:topology : DTC Topology object.
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- Restrictions
- Fields
  - comment
  - extattrs
  - name
  - rules
  - uuid
- Fields List

Previous topic

dtc:server : DTC Server object.

Next topic

dtc:topology:label : DTC Topology Label object.

dtc:topology : DTC Topology object.

A topology is a named list of ordered topology rules. Topology rules map client IPs to pools or resources. They require the Topology DB and named labels refer to it.

Object Reference

References to dtc:topology are object references. The *name* part of a DTC Topology object reference has the following components:

- Name of DTC Topology

Example (using _ref or UUID):

```
# Using _ref
dtc:topology/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCTopology1

# Using UUID
dtc:topology/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

comment

The comment for the DTC TOPOLOGY monitor object; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Display name of the DTC Topology.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rules

`rules`

Topology rules.

Type

A/An dtc:topology:rule object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
rules	[obj]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

dtc:topology:label : DTC Topology Label object.
- Object Reference
- Restrictions
- Fields
  - field
  - label
- Fields List

Previous topic

dtc:topology : DTC Topology object.

Next topic

dtc:topology:rule : DTC Topology Rule object.

dtc:topology:label : DTC Topology Label object.

This is the label of the field in the Topology database.

Object Reference

References to dtc:topology:label are object references.

The *name* part of a DTC Topology Label object reference has the following components:

- Field of DTC Topology label
- Label of DTC Topology label

Example: dtc:topology:label/ZG5zLm5ldHdvcmtfdmlldyQxMTk:CONTINENT/Africa

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **field, label**.

field

`field`

The name of the field in the Topology database the label was obtained from.

Type

String.

Valid values are:

- CITY
- CONTINENT
- COUNTRY
- EA0
- EA1
- EA2
- EA3
- SUBDIVISION
- SUBNET

Search

The field is available for search via

- '=' (exact equality)

Notes

The field is part of the base object.

The field cannot be updated.

field cannot be written.

label

`label`

The DTC Topology label name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The label is part of the base object.

The label cannot be updated.

label cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
field	String	N	Y	Y	=
label	String	N	Y	Y	: = ~

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dtc:topology:rule : DTC Topology Rule object.
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- Restrictions
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  - dest_type
  - destination
  - return_type
  - sources
  - topology
  - uuid
  - valid
- Fields List

Previous topic

dtc:topology:label : DTC Topology Label object.

Next topic

dxl:endpoint : The Data Exchange Layer endpoint object.

dtc:topology:rule : DTC Topology Rule object.

Topology rules map client IPs to pools or resources. They require the Topology DB and named labels refer to it. Can be created only as part of topology.

Object Reference

References to dtc:topology:rule are object references. The *name* part of a DTC Topology Rule object reference has the following components:

- Name of DTC Topology to which this rule belongs
- Name of destination DTC Server or Pool

Example (using _ref or UUID):

```
# Using _ref
dtc:topology:rule/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCTopology1/Server1

# Using UUID dtc:topology:rule/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

The following fields are required to create this object:

Field	Notes
dest_type	

dest_type

`dest_type`

The type of the destination for this DTC Topology rule.

Type

String.

Valid values are:

- POOL
- SERVER

Create

The field is required on creation.

Search

The field is not available for search.

destination

`destination`

Set of destinations for this DTC Topology rule.

Type

A/An DTC topology rule destination struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

return_type

`return_type`

Type of the DNS response for rule.

Type

String.

Valid values are:

- NOERR
- NXDOMAIN
- REGULAR

Create

The default value is *REGULAR*.

Search

The field is not available for search.

sources

`sources`

The conditions for matching sources. Should be empty to set rule as default

destination.

Type

A/An DTC topology rule source struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

topology

`topology`

The DTC Topology the rule belongs to.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The topology cannot be updated.

topology cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid

valid

True if the label in the rule exists in the current Topology DB. Always true for SUBNET rules. Rules with non-existent labels may be configured but will never match.

Type

Bool.

Search

The field is not available for search.

Notes

The valid cannot be updated.

valid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
dest_type	String	Y	N	N	N/A
destination	[struct]	N	N	N	N/A
return_type	String	N	N	N	N/A
sources	[struct]	N	N	N	N/A
topology	String	N	Y	N	=
uuid	String	N	Y	Y	: = ~
valid	Bool	N	Y	N	N/A

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  - clear_outbound_worker_log
  - test_broker_connectivity
- Fields List

Previous topic

dtc:topology:rule : DTC Topology Rule object.

Next topic

extensibleattributedef : Extensible Attribute Definition object.

dxl:endpoint : The Data Exchange Layer endpoint object.

The DXL endpoint object represents the settings of a particular DXL endpoint.

Object Reference

References to dxl:endpoint are object references.

The *name* part of the dxl:endpoint object reference has the following components:

- The name of an endpoint.

Example:

```
# Using _ref
dxl:endpoint/b25lLmVuZHBvaW50JDMzOQ:wintermute

# Using UUID
dxl:endpoint/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **disable, name, outbound_member_type, uuid**.

The following fields are required to create this object:

Field	Notes
brokers	See the field description for more information
brokers_import_token	See the field description for more information
client_certificate_token	
name	

outbound_member_type

brokers

brokers

The list of DXL endpoint brokers. Note that you cannot specify brokers and brokers_import_token at the same time.

Type

A/An The Data Exchange Layer endpoint broker structure struct array.

Create

A brokers value is required when brokers_import_token is not defined.

Search

The field is not available for search.

brokers_import_token

brokers_import_token

The token returned by the uploadinit function call in object fileop for a DXL broker configuration file. Note that you cannot specify brokers and brokers_import_token at the same time.

Type

String.

Create

brokers_import_token is required when brokers value is not defined.

Search

The field is not available for search.

Notes

brokers_import_token is not readable.

client_certificate_subject

client_certificate_subject

The client certificate subject of a DXL endpoint.

Type

String.

Search

The field is not available for search.

Notes

The client_certificate_subject cannot be updated.

client_certificate_subject cannot be written.

client_certificate_token

`client_certificate_token`

The token returned by the uploadinit function call in object fileop for a DXL endpoint client certificate.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

client_certificate_token is not readable.

client_certificate_valid_from

`client_certificate_valid_from`

The timestamp when client certificate for a DXL endpoint was created.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_from cannot be updated.

client_certificate_valid_from cannot be written.

client_certificate_valid_to

`client_certificate_valid_to`

The timestamp when the client certificate for a DXL endpoint expires.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_to cannot be updated.

client_certificate_valid_to cannot be written.

comment

`comment`

The comment of a DXL endpoint.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

disable

`disable`

Determines whether a DXL endpoint is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

log_level

`log_level`

The log level for a DXL endpoint.

Type

String.

Valid values are:

- DEBUG
- ERROR
- INFO
- WARNING

Create

The default value is *WARNING*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of a DXL endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

outbound_member_type

`outbound_member_type`

The outbound member that will generate events.

Type

String.

Valid values are:

- GM
- MEMBER

Create

The field is required on creation.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The outbound_member_type is part of the base object.

outbound_members

`outbound_members`

The list of members for outbound events.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

template_instance

`template_instance`

The DXL template instance. You cannot change the parameters of the DXL endpoint template instance.

Type

A/An Notification REST template instance struct.

Create

The default value is *empty*.

Search

The field is not available for search.

timeout

`timeout`

The timeout of session management (in seconds).

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

topics

`topics`

DXL topics

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_identifier

`vendor_identifier`

The vendor identifier.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

wapi_user_name

wapi_user_name

The user name for WAPI integration.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

wapi_user_password

wapi_user_password

The user password for WAPI integration.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

wapi_user_password is not readable.

Function Calls

clear_outbound_worker_log

Use this function to clear the outbound worker log for the endpoint.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

error_message (String.) The error message.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status of clearing procedure.

test_broker_connectivity

Use this function to test the DXL endpoint broker connectivity.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

broker (A/An The Data Exchange Layer endpoint broker structure struct.). This parameter is mandatory. The DXL endpoint broker that is the subject for the connectivity test.

client_certificate_token (String.) The token returned by the uploadinit function call in object fileop for a DXL endpoint client certificate.

endpoint (String.) The DXL Endpoint name.

Output fields

error_message (String.) The test connectivity failed error message.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status of the connectivity test.

Fields List

Field	Type	Req	R/O	Base	Search
brokers	[struct]	Y*	N	N	N/A
brokers_import_token	String	Y*	N	N	N/A
client_certificate_subject	String	N	Y	N	N/A
client_certificate_token	String	Y	N	N	N/A
client_certificate_valid_from	Timestamp	N	Y	N	N/A
client_certificate_valid_to	Timestamp	N	Y	N	N/A
comment	String	N	N	N	N/A
disable	Bool	N	N	Y	N/A
extattrs	Extattr	N	N	N	ext
log_level	String	N	N	N	=
name	String	Y	N	Y	: = ~
outbound_member_type	String	Y	N	Y	=
outbound_members	[String]	N	N	N	N/A
template_instance	struct	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
topics	[String]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vendor_identifier	String	N	N	N	: = ~

wapi_user_name	String	N	N	N	N/A
wapi_user_password	String	N	N	N	N/A

* Required in some cases, see detailed field description above.

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dxl:endpoint : The Data Exchange Layer endpoint object.

Next topic

federatedrealms : Federated realms object.

extensibleattributedef : Extensible Attribute Definition object.

The Extensible Attribute Definition object is used to retrieve the definition of an extensible attribute.

Defined attributes can be associated with other Infoblox objects: DHCP Fixed Address, DHCP Fixed Address Template, DHCP Network, DHCP Network Template, DHCP Range, DHCP Range Template, DNS Host, DHCP Failover and DNS Zone objects that support extensible attributes

Object Reference

References to extensibleattributedef are object references.

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, default_value, name, type, uuid**.

The following fields are required to create this object:

Field	Notes
name	
type	

allowed_object_types

`allowed_object_types`

The object types this extensible attribute is allowed to associate with.

Type

String array.

Create

The default value is *undefined*.

Search

The field is not available for search.

comment

`comment`

Comment for the Extensible Attribute Definition; maximum 256 characters.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

default_value

`default_value`

Default value used to pre-populate the attribute value in the GUI. For email, URL, and string types, the value is a string with a maximum of 256 characters. For an integer, the value is an integer from -2147483648 through 2147483647. For a date, the value is the number of seconds that have elapsed since January 1st, 1970 UTC.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The default_value is part of the base object.

descendants_action

`descendants_action`

This option describes the action that must be taken on the extensible attribute by its descendant in case the ‘Inheritable’ flag is set.

Type

A/An Descendants struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

descendants_action is not readable.

flags

`flags`

This field contains extensible attribute flags. Possible values: (A)udited, (C)loud API, Cloud (G)master, (I)nheritable, (L)isted, (M)andatory value, MGM (P)rivate, (R)ead Only, (S)ort enum values, Multiple (V)alues If there are two or more flags in the field, you must list them according to the order they are listed above.

For example, ‘CR’ is a valid value for the ‘flags’ field because C = Cloud API is listed before R = Read only. However, the value ‘RC’ is invalid because the order for the ‘flags’ field is broken.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

list_values

`list_values`

List of Values. Applicable if the extensible attribute type is ENUM.

Type

A/An List of values struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

max

`max`

Maximum allowed value of extensible attribute. Applicable if the extensible attribute type is INTEGER.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

min

`min`

Minimum allowed value of extensible attribute. Applicable if the extensible attribute type is INTEGER.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

name

`name`

The name of the Extensible Attribute Definition.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

namespace

`namespace`

Namespace for the Extensible Attribute Definition.

Type

String.

Valid values are:

- CLOUD
- CLOUD_GM
- MSADSITES
- RIPE
- default

Search

The field is available for search via

- '=' (exact equality)

Notes

The namespace cannot be updated.

namespace cannot be written.

type

`type`

Type for the Extensible Attribute Definition.

Type

String.

Valid values are:

- DATE
- EMAIL
- ENUM
- INTEGER
- STRING
- URL

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allowed_object_types	[String]	N	N	N	N/A
comment	String	N	N	Y	: = ~
default_value	String	N	N	Y	N/A
descendants_action	struct	N	N	N	N/A
flags	String	N	N	N	N/A
list_values	[struct]	N	N	N	N/A
max	Unsigned int	N	N	N	N/A
min	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
namespace	String	N	Y	N	=
type	String	Y	N	Y	=
uuid	String	N	Y	Y	: = ~

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fedipamop : Federated IPAM operations object.

federatedrealms : Federated realms object.

The federatedrealms is a read-only synthetic object used to retrieve federated realms that are available in the federation. It does not support reading a specific federated realm by reference.

Object Reference

References to federatedrealms are object references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **id, name**.

id

`id`

Federated realm id.

Type

String.

Search

The field is not available for search.

Notes

The id is part of the base object.

The id cannot be updated.

id cannot be written.

name

`name`

Federated realm name.

Type

String.

Search

The field is not available for search.

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
id	String	N	Y	Y	N/A
name	String	N	Y	Y	N/A

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federatedrealms : Federated realms object.

Next topic

fileop : File operations object.

fedipamop : Federated IPAM operations object.

Represents holder for Federated IPAM related functions.

Object Reference

This object cannot be retrieved from the appliance, hence it does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Read (retrieve)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

The object does not support any fields.

Function Calls

get_ancestor_federated_realms

This function is used to get federated realms associated with ancestors of a given network/network-container

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

address (String.) The ipv4/ipv6 network address.

cidr (Unsigned integer.) The netmask of the network in WAPI:gls: format.

network_view (String.) The network view name in which this network resides.

object_type (String.) The object types the following object types are valid:network,ipv6network,networkcontainer, ipv6networkcontainer

Output fields

federated_realm_id (String array.) federated realm ids

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fileop : File operations object.

This object controls uploading and downloading data from the appliance.

File uploading

If a call to ‘uploadinit’ is made, this will return a token and a URL, and the file will be uploaded to the URL. Depending on what the file is used for, the appropriate uploading function call will be executed. Example: setfiledest.

For an invocation example, see the sample code section in the manual here.

File downloading

If a call to the function that provides the requested data (such as getgriddata) is made, the appliance will return a token and a URL, and the file will be downloaded from the URL. Afterwards, ‘downloadcomplete’ needs to be called.

For an invocation example, see the sample code section in the manual here.

Note: the returned URL should be used as-is, without further processing. Some functions, for example csv_snapshot_file, will return URLs with embedded %-encoded characters.

Object Reference

This object cannot be retrieved from the appliance, hence it does not support references.

Scheduling

The ‘read’ and ‘csv_export’ functions support scheduling, other functions don’t; ‘csv_export’ supports scheduling only if exporting to a file.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete

Read (retrieve)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

The object does not support any fields.

Function Calls

download_atp_rule_update

This function is used to download and apply ATP rules.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

downloadcomplete

This function is used to signal to the appliance that a file download operation was completed.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the function call used to request the data.

Output fields

None

update_licenses

This function is used to upload a license file.

This function does not support multiple object matches when

called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. Upload information. Used to upload license file.

Output fields

None

uploadinit

This function is used to begin an upload operation.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

filename (String.) This is an optional parameter governing the name of the file that is being uploaded to the appliance. Unless specified in the description of the uploaded function that is used, this is going to be ignored. The default value is “import_file”.

Output fields

token (String.) The token used for calling the upload function.

url (String.) The URL to which the file is being uploaded.

(upload) creategcpuser

This function is used to upload service account file for GCP user creation.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

client_credentials_token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

user_name (String.). This parameter is mandatory. The GCP client’s user name. Maximum 64 characters.

user_name (String.) The gcp user name which has been stored

Output fields

user_name (String.) The GCP client’s user name. Maximum

64 characters.

(upload) csv_import

This function is used to import objects to the appliance in CSV format.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “START”, “TEST”) The action to execute. ‘TEST’ is valid only when operation is set to ‘REPLACE’. The default value is “START”.

doimport (Bool.) If this is set to True, the import will begin immediately. The default value is “True”.

on_error (String. Valid values are: “CONTINUE”, “STOP”) The action to be taken if the import operation encounters an error. The default value is “STOP”.

operation (String. Valid values are: “INSERT”, “UPDATE”, “REPLACE”, “DELETE”, “CUSTOM”) The operation to execute. The default value is “INSERT”.

separator (String. Valid values are: “COMMA”, “SEMICOLON”, “SPACE”, “TAB”) The separator to be used for the data in the CSV file. The default value is “COMMA”.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

update_method (String. Valid values are: “MERGE”, “OVERRIDE”) The update method to be used for the operation. The default value is “OVERRIDE”.

Output fields

csv_import_task (String.) The the csvimporttask object that can be used to control this import task.

(upload) restapi_template_import

This function is used to import REST API template parameters.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

overwrite (Bool.) Determines if existing templates have to be overwritten.

token (String.). This parameter is mandatory. The token used for calling the restapi_template_import function.

Output fields

error_message (String.) Description of an error that occurs if an import operation fails.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status of import procedure.

(upload) restoredatabase

This function is used to restore an existing database backup. Supported file type is “tar.gz”.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

discovery_data (Bool.) Determines whether to restore NetMRI data. The default value is “False”.

keep_grid_ip (Bool.) Determines whether to preserve the Grid IP for a forced restore. The default value is “False”.

mode (String. Valid values are: “NORMAL”, “FORCED”, “CLONE”). This parameter is mandatory. The restore mode.

nios_data (Bool.) Determines whether to restore the NIOS data. The default value is “True”.

splunk_app_data (Bool.) Determines whether to restore the Splunk data. The default value is “False”.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) restoredtcconfig

This function is used to upload data to the appliance (for example a backup).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

forced (Bool.). This parameter is mandatory. A flag that

indicates if we should force Restore DTC config process in case of any issues with associating DTC LBDNS in backup file to DNS zones.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

aborted (Bool.) A flag that indicates if Restore DTC config was aborted due to any warnings detected in the process.

warning_list (String.) List of warnings detected during DTC Restore attempt

(upload) set_captive_portal_file

This function is used to upload a Captive Portal file to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

filename (String.). This parameter is mandatory. The name of the file shown to user.

member (String.). This parameter is mandatory. The member for which the Captive Portal file will be uploaded.

override (Bool.) Determines if the previous uploaded file will be overridden. The default value is “False”.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

type (String. Valid values are: “IMG_LOGO”, “IMG_FOOTER”, “IMG_HEADER”, “AUP”). This parameter is mandatory. The captive portal file type.

Output fields

None

(upload) set_dhcp_leases

This function is used to import DHCP leases from the local system to the Infoblox appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

lease_format (String. Valid values are: “ISC_LEASE”) The lease format. The default value is “ISC_LEASE”.

lease_precedence (String. Valid values are: “KEEP_NEWEST”, “KEEP_PREVIOUS”, “REPLACE_PREVIOUS”). This parameter is mandatory. The lease precedence.

network_view (String.) The lease network view.

protocol (String. Valid values are: “IPv4”, “IPv6”) The lease protocol. The default value is “IPv4”.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) set_downgrade_file

This function is used to upload a downgrade file to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) set_last_uploaded_atp_ruleset

This function is used to set the last uploaded ATP ruleset.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call if the ruleset is uploaded. It can be also used to call the downloadcomplete function to download the ruleset.

Output fields

token (String.) The token returned by the uploadinit function

call if the ruleset is uploaded. It can be also used to call the downloadcomplete function to download the ruleset.

(upload) set_tls_certificate_file

This function is used to upload TLS certificates for API and DNSTAP violation features to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

type (String. Valid values are: “SERVER_CERT”, “SERVER_KEY”, “CA_CERT”, “DNSTAP_CERT”, “DNSTAP_KEY”, “DNSTAP_CA_CERT”). This parameter is mandatory. The TLS certificate file type.

Output fields

None

(upload) set_upgrade_file

This function is used to upload an upgrade file to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) setdiscoverycsv

This function is used to set the discovery CSV file.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

merge_data (Bool.) Determines whether the GM sorter should replace the old data with the new data. The default value is “True”.

network_view (String.) The discovery network view.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) setfiledest

This function is used to upload a file to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

dest_path (String.). This parameter is mandatory. The location on the appliance to which the uploaded file should be moved. For TFTP_FILE files this is relative to the TFTP file distribution directory.

extract (Bool.) If set to True, the uploaded archive is extracted. The default value is “False”.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

type (String. Valid values are: “TFTP_FILE”) The type of file that was uploaded. The default value is “TFTP_FILE”.

Output fields

None

(upload) setleasehistoryfiles

This function is used to upload DHCP lease history files to the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) setmemberdata

This function is used to set member data.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

member (String.). This parameter is mandatory. The member for which the particular data will be uploaded.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

type (String. Valid values are: “DHCP_EXPERT_MODE_CFG”). This parameter is mandatory. Member data type.

Output fields

None

(upload) update_atp_ruleset

This function is used to upload an ATP ruleset.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

error_message (String.) The description of an error occurred if import operation fails.

(upload) updategcpuser

This function is used to upload service account file for GCP user update.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

client_credentials_token (String.) The token returned by the uploadinit function call.

client_id (String.). This parameter is mandatory. The GCP client’s client ID.

user_name (String.) The GCP client's user name.

Output fields

None

(upload) uploadcertificate

This function is used to upload certificates.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

certificate_usage (String. Valid values are: "ADMIN", "CAPTIVE_PORTAL", "SFNT_CLIENT_CERT", "IFMAP_DHCP", "EAP_CA", "TAE_CA"). This parameter is mandatory. Certificate usage specifies the intended purpose of a certificate that will be uploaded. Below are the few types of certificates to be uploaded for specific services.

'ADMIN' - Used to export the Grid member certificate.

'CAPTIVE_PORTAL' - Used for the Captive Portal service.

'SFNT_CLIENT_CERT' - Used for SafeNet Client.

'IFMAP_DHCP' - Used for the IF-MAP [Interface for Metadata Access Points] client.

'EAP_CA' - Used for Extensible Authentication Protocol Certificate Authority (EAP CA).

'TAE_CA' - Used for the Trinzic Automation Engine license.

member (String.) The member for which the certificate will be uploaded.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

(upload) uploadserviceaccount

This function is used to upload service account file for GCP vDiscovery.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

service_account_file (String.) The service account file name with which file has been stored

(download) csv_error_log

This function is used to export objects from the appliance in CSV format.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

import_id (Unsigned integer.) The import_id of the operation to download the error log for.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) csv_export

This function is used to export objects from the appliance in CSV format.

Any parameter passed to this function and is not included in the list of input parameters below will be treated as a search parameter for the object type specified in _object. For example, if _object is set to 'record:a' and an additional search parameter of zone 'zone.com' is passed, all A record objects in zone.com will be exported.

Local file export

This function also supports exporting the CSV file to a named file in a subdirectory called *wapi_output* in the file distribution area.

If the *_filename* or *_fileprefix* argument is passed, the function exports the named file and does not return a token/url. The caller also does not need to call downloadcomplete afterwards.

Exports older than a week are removed automatically from the file area. Additional older exports are also removed automatically to keep the size of the WAPI export file directory under 50% of the TFTP file distribution area storage limit. The default value of the file distribution storage limit is 500MB and can be configured in the file distribution settings.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

_filename (String.) The filename to be used when exporting the data. Only _filename or _fileprefix can be specified.

_fileprefix (String.) The prefix to be used for the filename created when exporting the data. The object type used in the export and the date/time the export was executed are appended to the value. The extension ".txt" is automatically added as well.

_gzipfile (Bool.) Only used when exporting to a local file. If set to True, the exported file is gzipped. In that case, the extension ".gz" is automatically added. The default value is "False".

_object (String.). This parameter is mandatory. The WAPI object to be exported.

_separator (String. Valid values are: "COMMA", "SEMICOLON", "SPACE", "TAB") The separator to be used for the data in the CSV file. The default value is "COMMA".

Output fields

token (String.) The token used for calling the downloadcomplete function. Only present if _filename and _fileprefix are not specified.

url (String.) The URL from which the requested file is downloaded. Only present if _filename and _fileprefix are not specified.

(download) csv_snapshot_file

This function is used to download the snapshot file for a zone which has been overwritten. If a zone is overwritten the server will take a snapshot before the overwriting operation starts, and after it completes it will be made available to download.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

import_id (Unsigned integer.) The import_id of the operation to download the snapshot file for.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) csv_uploaded_file

This function is used to download the original file uploaded by the user for the CSV Import operation.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

import_id (Unsigned integer.) The import_id of the operation to download the CSV file for.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) download_pool_status

This function is used to download a signed file with license pools/static licenses.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

token (String.) Download information. Used to download license file.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) downloadcertificate

This function is used to download certificates.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

certificate_usage (String. Valid values are: “ADMIN”, “CAPTIVE_PORTAL”, “SFNT_CLIENT_CERT”, “IFMAP_DHCP”, “EAP_CA”, “TAE_CA”). This parameter is mandatory. Certificate usage.

member (String.) The member for which the certificate will be downloaded.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) generatecsr

This function is used to generate a certificate signing request (CSR).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

algorithm (String. Valid values are: “SHA-1”, “SHA-256”, “SHA-384”, “SHA-512”) The digest algorithm. The default value is “SHA-256”.

certificate_usage (String. Valid values are: “ADMIN”, “CAPTIVE_PORTAL”, “SFNT_CLIENT_CERT”, “IFMAP_DHCP”). This parameter is mandatory. The certificate usage.

cn (String.). This parameter is mandatory. The common name for the certificate.

comment (String.) The descriptive comment. The default value is “None”.

country (String.) The 2-letter country code used to construct the distinguished name of the subject. The default value is “None”.

email (String.) The contact email address used to construct the distinguished name of the subject. The default value is

“None”.

key_size (Unsigned integer.) The number of bits in the key. It must be 1024, 2048 or 4096. The default value is “2048”.

locality (String.) The location (e.g., city, town) used to construct the distinguished name of the subject. The default value is “None”.

member (String.). This parameter is mandatory. The member for which you want to generate the certificate.

org (String.) The organization used to construct the distinguished name of the subject. The default value is “None”.

org_unit (String.) The organizational unit used to construct the distinguished name of the subject. The default value is “None”.

state (String.) The state or province used to construct the distinguished name of the subject. The default value is “None”.

subject_alternative_names (A/An Subject alternative name structure struct array.) List of subject alternative names for certificate. The default value is “None”.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) generatedxlendpointcerts

This function is used to generate DXL endpoint certificate and retrieve CA certificate.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

ca_certificate_token (String.) The token used for calling the downloadcomplete function.

ca_certificate_url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

client_certificate_token (String.) The token used for calling

the downloadcomplete function.

client_certificate_url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) generateselfsignedcert

This function is used to generate self-signed certificate.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

algorithm (String. Valid values are: “SHA-1”, “SHA-256”, “SHA-384”, “SHA-512”) The digest algorithm. The default value is “SHA-256”.

certificate_usage (String. Valid values are: “ADMIN”, “CAPTIVE_PORTAL”, “SFNT_CLIENT_CERT”, “IFMAP_DHCP”). This parameter is mandatory. The certificate usage.

cn (String.). This parameter is mandatory. The common name for the certificate.

comment (String.) The descriptive comment. The default value is “None”.

country (String.) The 2-letter country code used to construct the distinguished name of the subject. The default value is “None”.

days_valid (Unsigned integer.). This parameter is mandatory. The certificate validity period in days.

email (String.) The contact email address used to construct the distinguished name of the subject. The default value is “None”.

key_size (Unsigned integer.) The number of bits in the key. It must be 1024, 2048 or 4096. The default value is “2048”.

locality (String.) The location (e.g., city, town) used to construct the distinguished name of the subject. The default value is “None”.

member (String.). This parameter is mandatory. The member for which you want to generate the certificate.

org (String.) The organization used to construct the distinguished name of the subject. The default value is “None”.

org_unit (String.) The organizational unit used to construct the distinguished name of the subject. The default value is

“None”.

state (String.) The state or province used to construct the distinguished name of the subject. The default value is “None”.

subject_alternative_names (A/An Subject alternative name structure struct array.) List of subject alternative names for certificate. The default value is “None”.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) generatethaleslunaclientcert

This function is used to generate a Thales Luna client certificate.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

algorithm (String. Valid values are: “RSASHA1”, “RSASHA256”). This parameter is mandatory. The Thales Luna certificate digest algorithm.

member (String.). This parameter is mandatory. The member the Thales Luna client certificate belongs to.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) get_file_url

You can use this function to retrieve the URL of the file that was created using the fileop read request.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

task_id (Unsigned integer.) The task_id of the operation for which the URL is downloaded.

Output fields

url (String.) The URL from which the requested file is downloaded.

(download) get_last_uploaded_atp_ruleset

This function is used to obtain the last uploaded ATP ruleset.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

token (String.) The token to download the ruleset. It can be used for calling the downloadcomplete function.

(download) get_log_files

This function is used to download log files from the Grid members, Microsoft servers or endpoints.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

endpoint (String.) The endpoint is to be used to gather log files. You must specify the endpoint if log_type is 'OUTBOUND'. You must specify only a member, a Microsoft(r) server, or an endpoint.

high_frequency (Bool.) Determines which ptop log files are to be downloaded. The default value is "False".

include_rotated (Bool.) Determines if rotated files are to be included. The default value is "False".

log_type (String. Valid values are: "SYSLOG", "AUDITLOG", "MSMGMTLOG", "DELTALOG", "OUTBOUND", "PTOPLOG", "DISCOVERY_CSV_ERRLOG"). This parameter is mandatory. The type of log files are to be downloaded.

member (String.) The member from which you are downloading the logs. You must specify only a member, a Microsoft(r) server, or an endpoint.

msserver (String.) The Microsoft server from which you are downloading the logs. You must specify only a member, a

Microsoft(r) server, or an endpoint.

node_type (String. Valid values are: “ACTIVE”, “BACKUP”) The node type.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) The URL to download files.

(download) get_support_bundle

Export the support bundle from a member. Exported file is in “tar.gz” format.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

cached_zone_data (Bool.) Include cached zone data files. The default value is “False”.

core_files (Bool.) Include core files in support bundle. The default value is “True”.

log_files (Bool.) Include log files in support bundle. The default value is “True”.

member (String.). This parameter is mandatory. The member from which the support bundle is downloaded.

nm_snmp_logs (Bool.) Include NetMRI SNMP logs. The default value is “False”.

recursive_cache_file (Bool.) Include DNS recursive cache dump. If the cached DNS recursive data is large in size, it might temporarily affect performance during the support bundle download. The default value is “True”.

remote_url (String.) If set, the data will be uploaded to the specified location, the format is [ftp|tftp|scp]://user:password@hostip/path/filename

rotate_log_files (Bool.) Include rotate_log files in support bundle. The default value is “True”.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from

which the requested file is downloaded.

(download) getgriddata

This function is used to download data from the appliance (for example a backup).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

discovery_data (Bool.) This flag controls whether Network Automation data should be exported. The field is valid only when type is set to BACKUP. The default value is “False”.

download_keys (Bool.) If set, scp backup support to download keysThe default value is “False”.

key_type (String. Valid values are: “id_rsa”, “id_ecdsa”) If set, scp backup support based on keys type

nios_data (Bool.) This flag controls whether NIOS data should be exported. The field is valid only when type is set to BACKUP. The default value is “True”.

remote_url (String.) If set, the data will be uploaded to the specified location, the format is [ftp|tftp|scp]://user:password@hostip/path/filename

splunk_app_data (Bool.) This flag controls whether Splunk data should be exported. The field is valid only when type is set to BACKUP. The default value is “False”.

type (String. Valid values are: “NTP_KEY_FILE”, “SNMP_MIBS_FILE”, “BACKUP”, “BACKUP_DTC”, “HF_MANIFEST_FILE”). This parameter is mandatory. The type of data to download.

upload_keys (Bool.) If set, scp backup support to upload keysThe default value is “False”.

use_keys (Bool.) If set, scp backup support based on keysThe default value is “False”.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) getleasehistoryfiles

This function is used to download DHCP lease history files from the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

end_time (Timestamp.) End of the requested lease history period.

member (String.). This parameter is mandatory. The member from which the DHCP lease history files will be downloaded.

remote_url (String.) If set, the data will be uploaded to the specified location, the format is [ftp|tftp|scp]://user:password@hostip/path/filename

start_time (Timestamp.) Start of the requested lease history period.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) getmemberdata

This function is used to download member data from the appliance.

Note : When ‘type’ is ‘DNS_ACCEL_CACHE’, the operation may take approximately 15 seconds to complete. During this period, there may be a slight impact on the DNS query performance for the member. WRED operations may also be impacted when you run the command.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

member (String.). This parameter is mandatory. The member from which the data will be downloaded.

remote_url (String.) If set, the data will be uploaded to the specified location, the format is [ftp|tftp|scp]://user:password@hostip/path/filename

type (String. Valid values are: “NTP_KEY_FILE”, “DNS_CFG”, “DHCP_CFG”, “DHCPV6_CFG”, “RADIUS_CFG”,

“DNS_CACHE”, “DNS_ACCEL_CACHE”, “DHCP_EXPERT_MODE_CFG”, “TRAFFIC_CAPTURE_FILE”, “DNS_STATS”, “DNS_RECURSING_CACHE”, “FP_CPU_USAGE”). This parameter is mandatory. Member data type.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) getthaleslunaclientcert

This function is used to download Thales Luna certificate.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

algorithm (String. Valid values are: “RSASHA1”, “RSASHA256”). This parameter is mandatory. The Thales Luna certificate digest algorithm.

member (String.). This parameter is mandatory. The member the Thales Luna client certificate belongs to.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) read

This function is used to read objects from the appliance and write them to a named file.

Any parameter passed to this function and is not included in the list of input parameters below is treated as a search parameter for the object type specified in _object. For example, if _object is set to ‘record:a’ and an additional search parameter of zone ‘zone.com’ is passed, all A record objects in zone.com are exported.

If _output_location is specified as LOCAL, *_filename* or *_fileprefix* argument should not be passed, the name of exported file will be generated automatically and function will

return the URL to exported file and token for downloadcomplete function. In case of scheduling, the reference to scheduling task will be returned instead. When scheduling task is complete, the get_file_url function should be used to retrieve URL of the exported file, no need for calling the downloadcomplete function.

If _output_location is specified as FILE_DISTRIBUTION (default value), file with the results of the read is placed in a subdirectory called “wapi_output” in the file distribution area. In this case, *_filename* or *_fileprefix* argument must be passed. This function version does not return a token/url. The caller also does not need to call downloadcomplete afterwards.

Reads older than a week are removed automatically from the file area. Additional older reads are also removed automatically to keep the size of the WAPI export file directory under 50% of the TFTP file distribution area storage limit. The default value of the file distribution storage limit is 500MB and can be configured in the file distribution settings.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

_**encoding** (String. Valid values are: “JSON”, “XML”, “ROWJSON”, “ROWXML”) The format that will be used when writing the file. The default value is “JSON”.

_**filename** (String.) The name of the file.

_**fileprefix** (String.) The prefix to be used for the filename. The object type read and the date/time the read was executed are appended to the value. The extension “.txt” is automatically added as well.

_**gzipfile** (Bool.) If set to True, the exported file is gzipped. In that case, the extension “.gz” is automatically added. The default value is “False”.

_**max_results** (Integer.) The maximum number of objects to be returned in the read. The default value is “-1000”.

_**object** (String.). This parameter is mandatory. The WAPI object to be read.

_**output_location** (String. Valid values are: “FILE_DISTRIBUTION”, “LOCAL”) The output location for the file. The default value is “FILE_DISTRIBUTION”.

_**return_fields** (String.) The return fields to be used for the read.

Output fields

token (String.) The token used for calling the downloadcomplete function. Only present if _output_location is passed as LOCAL and _filename, _fileprefix and scheduling information are not specified.

url (String.) The URL from which the requested file is downloaded. Only present if _output_location is passed as LOCAL and _filename, _fileprefix and scheduling information are not specified.

(download) restapi_template_export

This function is used to export REST API template parameters.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

restapi_template (String.). This parameter is mandatory. The name of REST API template to be exported.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) restapi_template_export_schema

This function is used to export the schema for the RESTful API template.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

schema_type (String. Valid values are: “REST_ENDPOINT”, “REST_EVENT”). This parameter is mandatory. The type of RESTful API template schema to be exported.

version (String.) The version of RESTful API template schema to be exported.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from

which the requested file is downloaded.

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filterfingerprint : DHCP Fingerprint Filter object.
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fileop : File operations object.

Next topic

filtermac : DHCP MAC Address Filter object.

filterfingerprint : DHCP Fingerprint Filter object.

The appliance can filter an address request by the DHCP fingerprint of a requesting client. Depending on how you apply DHCP fingerprint filters, the appliance can grant or deny the address request if the requesting client matches the filter criteria.

Only superuser can add/modify/delete fingerprint filters.

Object Reference

References to filterfingerprint are object references. The *name* part of a DHCP Fingerprint Filter object reference has the following components:

- Name of DHCP Fingerprint Filter object

Example:

```
# Using _ref
filterfingerprint/SW5mb2Jsb3ggQXBwbGlhbmNl:filter1

# Using UUID
filterfingerprint/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
fingerprint	
name	

comment

`comment`

The descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fingerprint

`fingerprint`

The list of DHCP Fingerprint objects.

Type

String array.

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The name of a DHCP Fingerprint Filter object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
fingerprint	[String]	Y	N	N	N/A
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Previous topic

filterfingerprint : DHCP Fingerprint Filter object.

Next topic

filternac : DHCP NAC Filter object.

filtermac : DHCP MAC Address Filter object.

An Infoblox appliance can filter address requests by the MAC address and/or vendor prefix (i.e., the first 6 hexadecimal characters of the MAC address) of a requesting host. The filter instructs the appliance to either grant or deny an address request if the requesting host matches the filter.

Object Reference

References to filtermac are object references. The *name* part of a DHCP MAC Address Filter object reference has the following components:

- Name of DHCP MAC Address Filter object.

Example:

Using _ref filtermac/SW5mb2Jsb3ggQXBwbGlhbmNl:filter1

Using UUID filtermac/123e4567e89b12d3a456426614174000

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

comment

The descriptive comment of a DHCP MAC Filter object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

default_mac_address_expiration

`default_mac_address_expiration`

The default MAC expiration time of the DHCP MAC Address Filter object.

By default, the MAC address filter never expires; otherwise, it is the absolute interval when the MAC address filter expires. The maximum value can extend up to 4294967295 secs. The minimum value is 60 secs (1 min).

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

disable

`disable`

Determines if the DHCP Fingerprint object is disabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enforce_expiration_times

`enforce_expiration_times`

The flag to enforce MAC address expiration of the DHCP MAC Address Filter object.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

lease_time

`lease_time`

The length of time the DHCP server leases an IP address to a client. The lease time applies to hosts that meet the filter criteria.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

name

name

The name of a DHCP MAC Filter object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

never_expires

never_expires

Determines if DHCP MAC Filter never expires or automatically expires.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

reserved_for_infoblox

`reserved_for_infoblox`

This is reserved for writing comments related to the particular MAC address filter. The length of comment cannot exceed 1024 bytes.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
default_mac_address_expiration	Unsigned int	N	N	N	N/A

disable	Bool	N	N	N	N/A
enforce_expiration_times	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
lease_time	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
never_expires	Bool	N	N	N	N/A
options	[struct]	N	N	N	N/A
reserved_for_infoblox	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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filtermac : DHCP MAC Address Filter object.

Next topic

filteroption : DHCP filter option object.

filternac : DHCP NAC Filter object.

If NAC authentication is configured, the appliance receives authentication responses from NAC authentication servers, and it grants or denies a lease request if the authentication response matches conditions defined by the NAC filters.

Only superuser can add/modify/delete NAC filters.

Object Reference

References to filternac are object references. The *name* part of a DHCP NAC Filter object reference has the following components:

- Name of DHCP NAC Filter object

Example:

```
# Using _ref
filternac/SW5mb2Jsb3ggQXBwbGlhbmNl:filter1

# Using UUID
filternac/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

comment

The descriptive comment of a DHCP NAC Filter object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

expression

expression

The conditional expression of a DHCP NAC Filter object.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

lease_time

`lease_time`

The length of time the DHCP server leases an IP address to a client. The lease time applies to hosts that meet the filter criteria.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

name

`name`

The name of a DHCP NAC Filter object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search

comment	String	N	N	Y	: = ~
expression	String	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
lease_time	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
options	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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filternac : DHCP NAC Filter object.

Next topic

filterrelayagent : The filter relay agent object.

filteroption : DHCP filter option object.

In the ISC DHCP terms, it defines a class of clients that match a particular (option, value) pair. To define an option filter, add Option to the DHCP Filter object.

Only superuser can add/modify/delete option filters.

Object Reference

References to filteroption are object references.

The *name* part of the filteroption object reference has the following components:

- Name of the Filter Option object

Example (using _ref or UUID):

```
# Using _ref
filteroption/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default

# Using UUID
filteroption/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

apply_as_class

apply_as_class

Determines if apply as class is enabled or not. If this flag is set to “true” the filter is treated as global DHCP class, e.g it is written to dhcpd config file even if it is not present in any DHCP range.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

bootfile

bootfile

A name of boot file of a DHCP filter option object.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

bootserver

bootserver

Determines the boot server of a DHCP filter option object. You can specify the name and/or IP address of the boot server that host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

The descriptive comment of a DHCP filter option object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

expression

`expression`

The conditional expression of a DHCP filter option object.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following

information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

lease_time

`lease_time`

Determines the lease time of a DHCP filter option object.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

name

`name`

The name of a DHCP option filter object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

next_server

`next_server`

Determines the next server of a DHCP filter option object. You can specify the name and/or IP address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

option_list

`option_list`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

option_space

`option_space`

The option space of a DHCP filter option object.

Type

String.

Create

The default value is *DHCP*.

Search

The field is not available for search.

pxe_lease_time

`pxe_lease_time`

Determines the PXE (Preboot Execution Environment) lease time of a DHCP filter option object. To specify the duration of time it takes a host to connect to a boot server, such as a TFTP server, and download the file it needs to boot.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
apply_as_class	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
expression	String	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
lease_time	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
next_server	String	N	N	N	N/A
option_list	[struct]	N	N	N	N/A
option_space	String	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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- Fields List

Previous topic

filteroption : DHCP filter option object.

Next topic

fingerprint : DHCP Fingerprint object.

filterrelayagent : The filter relay agent object.

The Infoblox appliance can screen address requests through relay agent filters (DHCP option 82) that assist the agents in forwarding address assignments across the proper circuit. When a relay agent receives the DHCPDISCOVER message, it can add one or two agent IDs in the DHCP option 82 suboption fields to the message. If the agent ID strings match those defined in a relay agent filter applied to a DHCP address range, the Infoblox appliance either assigns addresses from that range or denies the request (based on previously configured parameters; that is, the Grant lease and Deny lease parameters).

Object Reference

References to filterrelayagent are object references.

The *name* part of the filterrelayagent object reference has the following components:

- The name of a DHCP relay agent filter object.

Example (using _ref or UUID):

```
# Using _ref filterrelayagent/ZG5zLmRoY3Bfb3B0aW9uXzgyX2ZpbHRlciRCbG94:Blox

# Using UUID filterrelayagent/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
circuit_id_name	See the field description for more information
circuit_id_substring_length	See the field description for more information
circuit_id_substring_offset	See the field description for more information

is_circuit_id	See the field description for more information
is_circuit_id_substring	See the field description for more information
is_remote_id	See the field description for more information
is_remote_id_substring	See the field description for more information
name	
remote_id_name	See the field description for more information
remote_id_substring_length	See the field description for more information
remote_id_substring_offset	See the field description for more information

circuit_id_name

`circuit_id_name`

The circuit_id_name of a DHCP relay agent filter object. This filter identifies the circuit between the remote host and the relay agent. For example, the identifier can be the ingress interface number of the circuit access unit, perhaps concatenated with the unit ID number and slot number. Also, the circuit ID can be an ATM virtual circuit ID or cable data virtual circuit ID.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

You must specify circuit_id_name when is_circuit_id is set to “MATCHES_VALUE”.

Search

The field is not available for search.

circuit_id_substring_length

`circuit_id_substring_length`

The circuit ID substring length.

Type

Unsigned integer.

Create

You must specify the circuit ID substring length when is_circuit_id_substring is set to true.

Search

The field is not available for search.

circuit_id_substring_offset

`circuit_id_substring_offset`

The circuit ID substring offset.

Type

Unsigned integer.

Create

You must specify the circuit ID substring offset when is_circuit_id_substring is set to true.

Search

The field is not available for search.

comment

`comment`

A descriptive comment of a DHCP relay agent filter object.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_circuit_id

`is_circuit_id`

The circuit ID matching rule of a DHCP relay agent filter object. The circuit_id value takes effect only if the value is “MATCHES_VALUE”.

Type

String.

Valid values are:

- ANY
- MATCHES_VALUE
- NOT_SET

Create

You must specify a value for is_circuit_id or is_remote_id if the value is not set to “ANY”.

Search

The field is not available for search.

is_circuit_id_substring

`is_circuit_id_substring`

Determines if the substring of circuit ID, instead of the full circuit ID, is matched.

Type

Bool.

Create

You must specify is_circuit_id_substring when is_circuit_id is set to “MATCHES_VALUE”.

Search

The field is not available for search.

is_remote_id

`is_remote_id`

The remote ID matching rule of a DHCP relay agent filter object. The remote_id value takes effect only if the value is Matches_Value.

Type

String.

Valid values are:

- ANY
- MATCHES_VALUE
- NOT_SET

Create

You must specify a value for is_circuit_id or is_remote_id if the value is not set to “ANY”.

Search

The field is not available for search.

is_remote_id_substring

`is_remote_id_substring`

Determines if the substring of remote ID, instead of the full remote ID, is matched.

Type

Bool.

Create

You must specify is_remote_id_substring when is_remote_id is set to “MATCHES_VALUE”.

Search

The field is not available for search.

name

`name`

The name of a DHCP relay agent filter object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

remote_id_name

`remote_id_name`

The remote ID name attribute of a relay agent filter object. This filter identifies the remote host. The remote ID name can represent many different things such as the caller ID telephone number for a dial-up connection, a user name for logging in to the ISP, a modem ID, etc. When the remote ID name is defined on the relay agent, the DHCP server will have a trusted relationship to identify the remote host. The remote ID name is considered as a trusted identifier.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

You must specify the remote id name when is_remote_id is set to "MATCHES_VALUE".

Search

The field is not available for search.

remote_id_substring_length

`remote_id_substring_length`

The remote ID substring length.

Type

Unsigned integer.

Create

You must specify the the remote ID substring length when is_remote_id_substring is set to true.

Search

The field is not available for search.

remote_id_substring_offset

`remote_id_substring_offset`

The remote ID substring offset.

Type

Unsigned integer.

Create

You must specify the the remote ID substring offset when is_remote_id_substring is set to true.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
circuit_id_name	String	Y*	N	N	N/A
circuit_id_substring_length	Unsigned int	Y*	N	N	N/A
circuit_id_substring_offset	Unsigned int	Y*	N	N	N/A
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
is_circuit_id	String	Y*	N	N	N/A
is_circuit_id_substring	Bool	Y*	N	N	N/A
is_remote_id	String	Y*	N	N	N/A
is_remote_id_substring	Bool	Y*	N	N	N/A
name	String	Y	N	Y	: = ~
remote_id_name	String	Y*	N	N	N/A

remote_id_substring_length	Unsigned int	Y*	N	N	N/A
remote_id_substring_offset	Unsigned int	Y*	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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Previous topic

filterrelayagent : The filter relay agent object.

Next topic

fixedaddress : DHCP Fixed Address object.

fingerprint : DHCP Fingerprint object.

The DHCP Fingerprint object is part of the Fingerprint filter.

Only ‘CUSTOM’ fingerprint can be added or modified. The ‘STANDARD’ fingerprint can be disabled only.

Object Reference

References to fingerprint are object references. The *name* part of a fingerprint object reference has the following components:

- Name of the Fingerprint object

Example:

```
# Using _ref
fingerprint/SW5mb2Jsb3ggQXBwbGlhbmNl:Infoblox%20Appliance

# Using UUID
fingerprint/123e4567e89b12d3a456426614174000
```

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, device_class, name, uuid**.

The following fields are required to create this object:

Field	Notes
device_class	
ipv6_option_sequence	See the field description for more information
name	
option_sequence	See the field description for more information
vendor_id	See the field description for more information

comment

`comment`

Comment for the Fingerprint; maximum 256 characters.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

device_class

`device_class`

A class of DHCP Fingerprint object; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The device_class is part of the base object.

disable

`disable`

Determines if the DHCP Fingerprint object is disabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6_option_sequence

`ipv6_option_sequence`

A list (comma separated list) of IPv6 option number sequences of the device or operating system.

Type

String array.

Create

The field is required if neither option_sequence nor vendor_id is specified.

Search

The field is not available for search.

name

`name`

Name of the DHCP Fingerprint object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

option_sequence

`option_sequence`

A list (comma separated list) of IPv4 option number sequences of the device or operating system.

Type

String array.

Create

The field is required if neither ipv6_option_sequence nor vendor_id is specified.

Search

The field is not available for search.

type

`type`

The type of the DHCP Fingerprint object.

Type

String.

Valid values are:

- CUSTOM
- STANDARD

Create

The default value is *CUSTOM*.

Search

The field is available for search via

- '=' (exact equality)

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_id

`vendor_id`

A list of vendor IDs of the device or operating system.

Type

String array.

Create

The field is required if neither option_sequence nor ipv6_option_sequence is specified.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
device_class	String	Y	N	Y	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv6_option_sequence	[String]	Y*	N	N	N/A
name	String	Y	N	Y	: = ~
option_sequence	[String]	Y*	N	N	N/A
type	String	N	N	N	=
uuid	String	N	Y	Y	: = ~
vendor_id	[String]	Y*	N	N	N/A

* Required in some cases, see detailed field description above.

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fixedaddress : DHCP Fixed Address object.

A fixed address is a specific IP address that a DHCP server always assigns when a lease request comes from a particular MAC address of the client.

Object Reference

References to fixedaddress are object references.

The *name* part of a DHCP Fixed Address object reference has the following components:

- IP address of the fixed address
- Name of the view

Example (using _ref or UUID):

```
# Using _ref fixedaddress/ZG5zLmJpbmRfY25h:12.0.10.1/external

# Using UUID fixedaddress/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
agent_circuit_id	See the field description for more information
agent_remote_id	See the field description for more information
dhcp_client_identifier	See the field description for more information
ipv4addr	
mac	See the field description for more information

agent_circuit_id

`agent_circuit_id`

The agent circuit ID for the fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to CIRCUIT_ID.

Search

The field is not available for search.

agent_remote_id

agent_remote_id

The agent remote ID for the fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to REMOTE_ID.

Search

The field is not available for search.

allow_telnet

allow_telnet

This field controls whether the credential is used for both the Telnet and SSH credentials. If set to False, the credential is used only for SSH.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

always_update_dns

always_update_dns

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP client requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

bootfile

bootfile

The bootfile name for the fixed address. You can configure the DHCP server to

support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the fixed address. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cli_credentials

`cli_credentials`

The CLI credentials for the fixed address.

Type

A/An CLI credential struct array.

Create

The default value is *empty*.

Search

The field is not available for search.

client_identifier_prepend_zero

`client_identifier_prepend_zero`

This field controls whether there is a prepend for the dhcp-client-identifier of a fixed address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the fixed address; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates

for this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_hostname

`ddns_hostname`

The DDNS host name for this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

If set to true, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

device_description

`device_description`

The description of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_location

`device_location`

The location of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_type

`device_type`

The type of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

device_vendor

`device_vendor`

The vendor of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

dhcp_client_identifier

`dhcp_client_identifier`

The DHCP client ID for the fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to CLIENT_ID.

Search

The field is not available for search.

disable

`disable`

Determines whether a fixed address is disabled or not. When this is set to False, the fixed address is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_discovery

`disable_discovery`

Determines if the discovery for this fixed address is disabled or not. False means that the discovery is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

The discovery status of this fixed address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

`discovered_data`

The discovered data for this fixed address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

enable_ddns

enable_ddns

The dynamic DNS updates flag of a DHCP Fixed Address object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_immediate_discovery

enable_immediate_discovery

Determines if the discovery for the fixed address should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

enable_pxe_lease_time

enable_pxe_lease_time

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ipv4addr

`ipv4addr`

The IPv4 Address of the fixed address.

Type

String.

The field also supports automatic selection of the next available address in the specified network or range. You can specify the network or range in the following ways:

Using a network or range WAPI reference:

- func:nextavailableip:<reference>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using a range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default
- func:nextavailableip:10.0.0.0/8
- func:nextavailableip:10.0.0.0/8,external
- func:nextavailableip:10.0.0.3-10.0.0.10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See		A WAPI object reference on which the

comment	**_object_ref**	function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

is_invalid_mac

`is_invalid_mac`

This flag reflects whether the MAC address for this fixed address is invalid.

Type

Bool.

Search

The field is not available for search.

Notes

The is_invalid_mac cannot be updated.

is_invalid_mac cannot be written.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this fixed address.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

mac

`mac`

The MAC address value for this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to its default value - MAC_ADDRESS.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

match_client

`match_client`

The match_client value for this fixed address. Valid values are:

“MAC_ADDRESS”: The fixed IP address is leased to the matching MAC address.

“CLIENT_ID”: The fixed IP address is leased to the matching DHCP client identifier.

“RESERVED”: The fixed IP address is reserved for later use with a MAC address that only has zeros.

“CIRCUIT_ID”: The fixed IP address is leased to the DHCP client with a matching circuit ID. Note that the “agent_circuit_id” field must be set in this case.

“REMOTE_ID”: The fixed IP address is leased to the DHCP client with a matching remote ID. Note that the “agent_remote_id” field must be set in this case.

Type

String.

Valid values are:

- CIRCUIT_ID
- CLIENT_ID
- MAC_ADDRESS
- REMOTE_ID
- RESERVED

Create

The default value is *MAC_ADDRESS*.

Search

The field is available for search via

- ‘=’ (exact equality)

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

ms_options

`ms_options`

This field contains the Microsoft DHCP options for this fixed address.

Type

A/An Microsoft DHCP Options struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ms_options is associated with the field use_ms_options (see use flag).

ms_server

`ms_server`

The Microsoft server associated with this fixed address.

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

This field contains the name of this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

network

`network`

The network to which this fixed address belongs, in IPv4 Address/CIDR format.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

network_view

`network_view`

The name of the network view in which this fixed address resides.

Type

String.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address format of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

`pxe_lease_time`

The PXE lease time value for a DHCP Fixed Address object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

reserved_interface

`reserved_interface`

The ref to the reserved interface to which the device belongs.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

restart_if_needed

`restart_if_needed`

Restarts the member service. The restart_if_needed flag can trigger a restart on DHCP services only when it is enabled on CP member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

snmp3_credential

`snmp3_credential`

The SNMPv3 credential for this fixed address.

Type

A/An SNMP v3 Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

snmp_credential

`snmp_credential`

The SNMPv1 or SNMPv2 credential for this fixed address.

Type

A/An SNMP Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

template

template

If set on creation, the fixed address will be created according to the values specified in the named template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

use_bootfile

use_bootfile

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

use_bootserver

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_cli_credentials

use_cli_credentials

If set to true, the CLI credential will override member-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_options

use_ms_options

Use flag for: ms_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

`use_pxe_lease_time`

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp3_credential

`use_snmp3_credential`

Determines if the SNMPv3 credential should be used for the fixed address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp_credential

`use_snmp_credential`

If set to true, the SNMP credential will override member-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)

- ‘=’ (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
agent_circuit_id	String	Y*	N	N	N/A
agent_remote_id	String	Y*	N	N	N/A
allow_telnet	Bool	N	N	N	N/A
always_update_dns	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cli_credentials	[struct]	N	N	N	N/A

client_identifier_prepend_zero	Bool	N	N	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_hostname	String	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
device_description	String	N	N	N	: = ~
device_location	String	N	N	N	: = ~
device_type	String	N	N	N	: = ~
device_vendor	String	N	N	N	: = ~
dhcp_client_identifier	String	Y*	N	N	N/A
disable	Bool	N	N	N	N/A
disable_discovery	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ipv4addr	String	Y	N	Y	= ~
is_invalid_mac	Bool	N	Y	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
mac	String	Y*	N	N	: = ~
match_client	String	N	N	N	=
ms_ad_user_data	struct	N	Y	N	N/A
ms_options	[struct]	N	N	N	N/A
ms_server	struct	N	N	N	=
name	String	N	N	N	N/A
network	String	N	N	N	= ~
network_view	String	N	N	Y	=
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
reserved_interface	String	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
snmp3_credential	struct	N	N	N	N/A
snmp_credential	struct	N	N	N	N/A
template	String	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_cli_credentials	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_ms_options	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_snmp3_credential	Bool	N	N	N	N/A
use_snmp_credential	Bool	N	N	N	N/A

uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~

discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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fixedaddress : DHCP Fixed Address object.

Next topic

ftpuser : FTP user object.

fixedaddresstemplate : The fixed address template object.

The fixed address template used to create a fixed address objects in a quick and consistent way. Fixed address object created from a fixed address template will inherit most properties defined in fixed address template object so most of the fixed address template properties are the same as the fixed address object properties.

Object Reference

References to fixedaddresstemplate are object references.

The *name* part of a DHCP Fixed Address template object reference has the following components:

- Name of the fixed address template

Example (using _ref or UUID):

```
# Using _ref
fixedaddresstemplate/ZG5zLmJpbmRfY25h:template_name

# Using UUID
fixedaddresstemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

bootfile

`bootfile`

The boot file name for the fixed address. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The boot server address for the fixed address. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

comment

`comment`

A descriptive comment of a fixed address template object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_hostname

`ddns_hostname`

The DDNS host name for this fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

Determines if BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

enable_ddns

`enable_ddns`

Determines if the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on this fixed address.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

name

`name`

The name of a fixed address template object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address format of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

number_of_addresses

number_of_addresses

The number of addresses for this fixed address.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

offset

offset

The start address offset for this fixed address.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

`pxe_lease_time`

The PXE lease time value for a DHCP Fixed Address object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_hostname	String	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
nextserver	String	N	N	N	N/A
number_of_addresses	Unsigned int	N	N	N	N/A
offset	Unsigned int	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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ftpuser : FTP user object.
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Previous topic

fixedaddresstemplate : The fixed address template object.

Next topic

gcpdnstaskgroup : Gcp DNS task group object.

ftpuser : FTP user object.

The FTP user represents the user accounts to be used with the FTP client.

Object Reference

References to ftpuser are object references.

The *name* part of the FTP user object reference has the following components:

- The FTP username

Example (using _ref or UUID):

```
# Using _ref ftpuser/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:user1

# Using UUID ftpuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **username, uuid**.

The following fields are required to create this object:

Field	Notes
create_home_dir	See the field description for more information
home_dir	See the field description for more information
password	
username	

create_home_dir

`create_home_dir`

Determines whether to create the home directory with the user name or to use the existing directory as the home directory.

Type

Bool.

Create

You cannot specify home_dir when create_home_dir is set to True

Search

The field is not available for search.

Notes

The create_home_dir cannot be updated.

create_home_dir is not readable.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

home_dir

`home_dir`

The absolute path of the FTP user's home directory.

Type

String.

Create

You must specify home_dir when create_home_dir is set to False

Search

The field is not available for search.

Notes

The home_dir cannot be updated.

password

password

The FTP user password.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

password is not readable.

permission

permission

The FTP user permission.

Type

String.

Valid values are:

- RO
- RW

Create

The default value is *RO*.

Search

The field is not available for search.

username

username

The FTP user name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The username is part of the base object.

The username cannot be updated.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
create_home_dir	Bool	Y*	N	N	N/A
extattrs	Extattr	N	N	N	ext
home_dir	String	Y*	N	N	N/A
password	String	Y	N	N	N/A
permission	String	N	N	N	N/A
username	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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Previous topic

ftpuser : FTP user object.

Next topic

gcpuser : GCP User object.

gcpdnstaskgroup : Gcp DNS task group object.

An Gcp DNS task group is a collection of one or more tasks allowing you to specify various zone filters to retrieve DNS zone data from Gcp DNS service using specified Gcp user credentials. Grouping these tasks together helps organize related groups of sync data, enable/disable these and manage the grid member these run on.

Object Reference

References to gcpdnstaskgroup are object references.

The *name* part of the name server group object reference has the following components:

- Name of the Gcp DNS task group

Example (using _ref or UUID):

```
# Using _ref
gcpdnstaskgroup/ZG5zLmJpbmRfY25h:extdatagroup

# Using UUID
gcpdnstaskgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disabled, name, project_id, sync_child_projects, sync_status, uuid**.

The following fields are required to create this object:

Field	Notes
consolidated_view	See the field description for more information

gcp_project_ids_file_token	See the field description for more information
grid_member	
name	
network_view	See the field description for more information

comment

`comment`

Comment for the task group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

consolidate_zones

`consolidate_zones`

Indicates if all zones need to be saved into a single view.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidate_zones cannot be updated.

consolidated_view

`consolidated_view`

Consolidate all zones into one view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The consolidated view is required if consolidate_zones is set and network_view_mapping_policy is DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The consolidated_view cannot be updated.

disabled

`disabled`

Indicates if the task group is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The disabled is part of the base object.

gcp_project_ids_file_token

gcp_project_ids_file_token

The Gcp project IDs file's token.

Type

String.

Create

The gcp_project_ids_file_token is required if multiple_projects_sync_policy is set to UPLOAD_PROJECTS

Search

The field is available for search via

- '=' (exact equality)

grid_member

grid_member

Grid member configured to run this task group.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

multiple_projects_sync_policy

multiple_projects_sync_policy

Discover all child projects or Upload child project ids to discover.

Type

String.

Valid values are:

- DISCOVER_PROJECTS
- NONE
- UPLOAD_PROJECTS

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of this Gcp DNS sync task group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the tenant's network view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The network view required if network_view_mapping_policy is set to DIRECT

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view_mapping_policy

`network_view_mapping_policy`

The network view mapping policy.

Type

String.

Valid values are:

- AUTO_CREATE
- DIRECT

Create

The default value is *AUTO_CREATE*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view_mapping_policy cannot be updated.

project_id

`project_id`

The Gcp project ID associated with this task group.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The project_id is part of the base object.

The project_id cannot be updated.

project_id cannot be written.

projects_list

`projects_list`

The Gcp Project IDs list associated with this task.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The projects_list cannot be updated.

projects_list cannot be written.

sync_child_projects

`sync_child_projects`

Synchronizing child projects is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_child_projects is part of the base object.

sync_status

`sync_status`

Sync status for this task.

Type

String.

Valid values are:

- NOT_SYNCING
- OFFLINE
- OK
- SYNC_ERROR

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_status is part of the base object.

The sync_status cannot be updated.

sync_status cannot be written.

task_list

`task_list`

List of Gcp DNS tasks in this group.

Type

A/An Gcp DNS task struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

task_control

This function performs action on a task. Current support is for RUN action.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: "RUN"). This parameter is mandatory. The task control action to perform. Currently only start is supported.

cloud_dns_server_type (String. Valid values are: "AWS", "Azure", "GCP"). This parameter is mandatory. This field contains the name of the cloud provider.

task_name (String.). This parameter is mandatory. This field contains the name of the task to perform this action on.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
consolidate_zones	Bool	N	N	N	=
consolidated_view	String	Y*	N	N	=
disabled	Bool	N	N	Y	=
gcp_project_ids_file_token	String	Y*	N	N	=
grid_member	String	Y	N	N	=
multiple_projects_sync_policy	String	N	N	N	=

name	String	Y	N	Y	: = ~
network_view	String	Y*	N	N	=
network_view_mapping_policy	String	N	N	N	=
project_id	String	N	Y	Y	: = ~
projects_list	String	N	Y	N	=
sync_child_projects	Bool	N	N	Y	=
sync_status	String	N	Y	Y	=
task_list	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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gcpuser : GCP User object.
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  - private_key_id
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  - user_name
  - uuid
- Fields List

Previous topic

gcpdnstaskgroup : Gcp DNS task group object.

Next topic

gmcgroup : GMC group object.

gcpuser : GCP User object.

An GCP user object represents a specific client id and client secret pair credentials of an GCP user.

Object Reference

References to gcpuser are object references.

The *name* part of the name server group object reference has the following components:

- Client ID of the GCP user

Example (using _ref or UUID):

```
# Using _ref gcpuser/b25lLmF6dXJlX3VzZXIkMjg5N:289623f5-c9f1-42ab-b458-6f3130b92b01

# Using UUID gcpuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **auth_provider_x509_cert_url, auth_uri, client_email, client_id, client_x509_cert_url, file_name, private_key_id, project_id, token_uri, type, user_name, uuid**.

The following fields are required to create this object:

Field	Notes
user_name	

auth_provider_x509_cert_url

`auth_provider_x509_cert_url`

The URL where the public key certificates provided by the authentication provider can be retrieved.. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The auth_provider_x509_cert_url is part of the base object.

The auth_provider_x509_cert_url cannot be updated.

auth_provider_x509_cert_url cannot be written.

auth_uri

`auth_uri`

The URI where authentication requests should be directed.. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The auth_uri is part of the base object.

The auth_uri cannot be updated.

auth_uri cannot be written.

client_email

`client_email`

The email address associated with the service account. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The client_email is part of the base object.

The client_email cannot be updated.

client_email cannot be written.

client_id

`client_id`

The unique identifier for the service account. Maximum 64 characts.er

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The client_id is part of the base object.

The client_id cannot be updated.

client_id cannot be written.

client_x509_cert_url

`client_x509_cert_url`

The URL where the public key certificate for the service account can be retrieved. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The client_x509_cert_url is part of the base object.

The client_x509_cert_url cannot be updated.

client_x509_cert_url cannot be written.

file_name

`file_name`

GCP client credentials file name.. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The file_name is part of the base object.

The file_name cannot be updated.

file_name cannot be written.

last_used

`last_used`

The timestamp when this Azure user credentials was last used.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_used cannot be updated.

last_used cannot be written.

private_key

`private_key`

The private key used for authentication. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The private_key cannot be updated.

private_key cannot be written.

private_key_id

`private_key_id`

The identifier for the private key associated with the service account. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The private_key_id is part of the base object.

The private_key_id cannot be updated.

private_key_id cannot be written.

project_id

`project_id`

The ID of the GCP project associated with the service account. Maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The project_id is part of the base object.

The project_id cannot be updated.

project_id cannot be written.

status

`status`

Indicate the validity status of this GCP user.

Type

String.

Valid values are:

- SUCCESSFUL
- UNSUCCESSFUL
- UNUSED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status cannot be updated.

status cannot be written.

token_uri

`token_uri`

The URI where token requests should be directed.. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The token_uri is part of the base object.

The token_uri cannot be updated.

token_uri cannot be written.

type

`type`

Specifies the type of the credential. Maximum 255 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

user_name

`user_name`

The GCP client’s user name. Maximum 64 characters.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The user_name is part of the base object.

user_name is not readable.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
auth_provider_x509_cert_url	String	N	Y	Y	=
auth_uri	String	N	Y	Y	=
client_email	String	N	Y	Y	=
client_id	String	N	Y	Y	: = ~
client_x509_cert_url	String	N	Y	Y	=
file_name	String	N	Y	Y	: = ~
last_used	Timestamp	N	Y	N	N/A
private_key	String	N	Y	N	N/A
private_key_id	String	N	Y	Y	=
project_id	String	N	Y	Y	: = ~
status	String	N	Y	N	=
token_uri	String	N	Y	Y	=

type	String	N	Y	Y	=
user_name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

gmcgroup : GMC group object.
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  - gmc_promotion_policy
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  - name
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- Function Calls
  - reconnect_group_now
- Fields List

Previous topic

gcpuser : GCP User object.

Next topic

gmcschedule : GMC schedule object.

gmcgroup : GMC group object.

gmcgroup store the group list details

Object Reference

References to gmcgroup are object references.

The *name* part of the gmcgroup object reference has the following components:

Example (using _ref or UUID):

```
# Using _ref gmcgroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

# Using UUID gmcgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

Description of the group

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

gmc_promotion_policy

`gmc_promotion_policy`

This field decides whether the members join back at the same time or sequentially with time gap of 30 seconds.

Type

String.

Valid values are:

- SEQUENTIALLY
- SIMULTANEOUSLY

Create

The default value is *SIMULTANEOUSLY*.

Search

The field is not available for search.

members

`members`

gmcgroup members

Type

A/An gmcgroup member structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

`name`

Group name

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

scheduled_time

`scheduled_time`

Absolute time at which the reconnect starts

Type

Timestamp.

Create

The default value is *empty*.

Search

The field is not available for search.

time_zone

`time_zone`

The time zone for scheduling operations.

Type

String.

Search

The field is not available for search.

Notes

The time_zone cannot be updated.

time_zone cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

reconnect_group_now

This function is used for the immediate reconnecting of the GMC group members

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

gmc_group_name (String.). This parameter is mandatory. Name of the GMC group to reconnect to the new GM

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
gmc_promotion_policy	String	N	N	N	N/A
members	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
scheduled_time	Timestamp	N	N	N	N/A
time_zone	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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gmcschedule : GMC schedule object.
- Object Reference
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- Fields
  - activate_gmc_group_schedule
  - gmc_groups
  - uuid
- Fields List

Previous topic

gmcgroup : GMC group object.

Next topic

grid : Grid object.

gmcschedule : GMC schedule object.

This object store the feature activate field and list of gmcgroup objects

Object Reference

References to gmcschedule are object references.

The *name* part of the gmcgroup object reference has the following components:

Example:

```
# Using _ref
gmcschedule/b25lLmdtY19zY2hlZHVsZV9ncm91cCQw

# Using UUID
gmcschedule/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **activate_gmc_group_schedule, uuid**.

activate_gmc_group_schedule

`activate_gmc_group_schedule`

Determines whether the gmc schedule is active.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The activate_gmc_group_schedule is part of the base object.

gmc_groups

`gmc_groups`

Object array of gmc groups

Type

A/An gmcgroup object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The gmc_groups cannot be updated.

gmc_groups cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
activate_gmc_group_schedule	Bool	N	N	Y	N/A
gmc_groups	[obj]	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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infoblox

Table of Contents

grid : Grid object.
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  - audit_to_syslog_enable
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  - enable_lom
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  - security_setting
  - service_status
  - snmp_setting

grid : Grid object.

This object represents the Infoblox Grid.

Object Reference

References to grid are object references. The *name* part of a Grid object reference has the following components:

- The name of the Infoblox Grid.

Example (using _ref or UUID):

```
# Using _ref
grid/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID
grid/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

In addition the object does not support the following operations when managed on Cloud Platform members:

- Modify (update)

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

allow_recursive_deletion

`allow_recursive_deletion`

The property to allow recursive deletion. Determines the users who can choose to perform recursive deletion on networks or zones from the GUI only.

Type

String.

Valid values are:

- ALL
- NOBODY

- SUPERUSERS

Create

The default value is *ALL*.

Search

The field is not available for search.

audit_log_format

`audit_log_format`

Determines the audit log format.

Type

String.

Valid values are:
- BRIEF
- DETAILED
- WAPI_DETAILED

Create

The default value is *DETAILED*.

Search

The field is not available for search.

audit_to_syslog_enable

`audit_to_syslog_enable`

If set to True, audit log messages are also copied to the syslog.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

automated_traffic_capture_setting

`automated_traffic_capture_setting`

The grid level settings for automated traffic capture.

Type

A/An Automated Traffic Capture struct.

Create

The default value is:

```
  { 'destination': 'NONE',
'include_support_bundle': False,
'keep_local_copy': False,
'traffic_capture_enable': False}
```

Search

The field is not available for search.

consent_banner_setting

consent_banner_setting

The Grid consent banner settings.

Type

A/An Consent banner setting struct.

Create

The default value is:

```
{'enable': False}
```

Search

The field is not available for search.

csp_api_config

csp_api_config

The Grid csp api config settings.

Type

A/An Csp Api config struct.

Create

The default value is:

```
{'url': 'https://csp.infoblox.com'}
```

Search

The field is not available for search.

csp_grid_setting

csp_grid_setting

CSP settings at grid level. Test Setting will be performed for any change under CSP_grid_setting. The default resolver is now set to 52.119.41.100. If this resolver is not reachable, we can use the previous resolver 52.119.40.100 as

a fallback.

Type

A/An CSP Grid setting struct.

Create

The default value is:

```
{'csp_dns_resolver': '52.119.41.100'}
```

Search

The field is not available for search.

deny_mgm_snapshots

deny_mgm_snapshots

If set to True, the managed Grid will not send snapshots to the Multi-Grid Master.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

descendants_action

descendants_action

The default actions for extensible attributes that exist on descendants.

Type

A/An Descendants struct.

Create

The default value is:

```
  { 'option_delete_ea': 'RETAIN',
'option_with_ea': 'RETAIN',
'option_without_ea': 'NOT_INHERIT'}
```

Search

The field is not available for search.

dns_resolver_setting

dns_resolver_setting

The DNS resolver setting.

Type

A/An DNS resolver Setting struct.

Create

The default value is:

```
{'resolvers': [], 'search_domains': []}
```

Search

The field is not available for search.

dscp

dscp

The DSCP value.

Valid values are integers between 0 and 63 inclusive.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

email_setting

email_setting

The e-mail settings for the Grid.

Type

A/An The email settings for the Grid member struct.

Create

The default value is:

```
  { 'enabled': False,
'port_number': 25,
'relay_enabled': False,
'smtps': False,
'use_authentication': False}
```

Search

The field is not available for search.

enable_federation

enable_federation

Determines if the Cloud Grid Management feature is enabled or not. Test Setting will be performed for any change in enable_federation.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

enable_force_sync_join_token_to_gmc

enable_force_sync_join_token_to_gmc

Determines if the force sync join token from GM to GMC is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_gui_api_for_lan_vip

enable_gui_api_for_lan_vip

If set to True, GUI and API access are enabled on the LAN/VIP port and MGMT port (if configured).

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_lom

enable_lom

Determines if the LOM functionality is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_member_redirect

`enable_member_redirect`

Determines redirections is enabled or not for members.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_recycle_bin

`enable_recycle_bin`

Determines if the Recycle Bin is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_rir_swip

`enable_rir_swip`

Determines if the RIR/SWIP support is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

external_syslog_backup_servers

external_syslog_backup_servers

The list of external backup syslog servers.

Type

A/An External syslog backup server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

external_syslog_server_enable

external_syslog_server_enable

If set to True, external syslog servers are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

http_proxy_server_setting

http_proxy_server_setting

The Grid HTTP proxy server settings.

Type

A/An HTTP Proxy Server Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

informational_banner_setting

informational_banner_setting

The Grid informational level banner settings.

Type

A/An Informational level banner setting struct.

Create

The default value is:

```
{'color': 'GREEN', 'enable': False}
```

Search

The field is not available for search.

is_grid_visualization_visible

is_grid_visualization_visible

If set to True, graphical visualization of the Grid is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

lockout_setting

lockout_setting

Security Setting for Account lockout.

Type

A/An Lockout Security Setting struct.

Create

The default value is:

```
  { 'enable_sequential_failed_login_attempts_lockout': False,
'failed_lockout_duration': 5,
'never_unlock_user': False,
'sequential_attempts': 5}
```

Search

The field is not available for search.

lom_users

lom_users

The list of LOM users.

Type

A/An The Lights Out Management (LOM) user struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

mgm_strict_delegate_mode

mgm_strict_delegate_mode

Determines if strict delegate mode for the Grid managed by the Master Grid is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_setting

ms_setting

The settings for all Microsoft servers in the Grid.

Type

A/An Microsoft server settings structure struct.

Create

The default value is:

```
  { 'ad_user_default_timeout': 7200,
'default_ip_site_link': 'DEFAULTIPSITELINK',
'enable_ad_user_sync': False,
'enable_dhcp_monitoring': True,
'enable_dns_monitoring': True,
'enable_dns_reports_sync': True,
'enable_invalid_mac': True,
'enable_network_users': False,
'ldap_timeout': 10,
'log_destination': 'MSLOG',
'max_connection': 5,
'rpc_timeout': 10}
```

Search

The field is not available for search.

name

name

The grid name.

Type

String.

Create

The default value is *Infoblox*.

Search

The field is available for search via

- '~=' (regular expression)

nat_groups

nat_groups

The list of all Network Address Translation (NAT) groups configured on the Grid.

Type

String array.

Create

The default value is *All the NAT groups configured on the Grid*.

Search

The field is not available for search.

ntp_setting

ntp_setting

The Grid Network Time Protocol (NTP) settings.

Type

A/An The Grid Network Time Protocol (NTP) settings structure struct.

Create

The default value is:

```
  { 'enable_ntp': False,
'gm_local_ntp_stratum': 13,
'local_ntp_stratum': 15,
'ntp_acl': {'ac_list': [], 'acl_type': 'NONE', 'service': 'TIME'},
'ntp_keys': [],
```

```
'ntp_kod': False,
'ntp_servers': [],
'use_default_stratum': True}
```

Search

The field is not available for search.

objects_changes_tracking_setting

objects_changes_tracking_setting

Determines the object changes tracking settings.

Type

A/An Objects changes tracking setting struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

password_setting

password_setting

The Grid password settings.

Type

A/An Password settings struct.

Create

The default value is:

```
  { 'chars_to_change': 0,
'expire_days': 30,
'expire_enable': False,
'force_reset_enable': False,
'history_enable': False,
'min_password_age': 0,
'num_lower_char': 0,
'num_numeric_char': 0,
'num_passwords_saved': 5,
'num_symbol_char': 0,
'num_upper_char': 0,
'password_min_length': 4,
'reminder_days': 15}
```

Search

The field is not available for search.

restart_banner_setting

restart_banner_setting

The setting for the Restart Banner.

Type

A/An Restart Banner Setting struct.

Create

The default value is:

```
{'enable_double_confirmation': False, 'enabled': True}
```

Search

The field is not available for search.

restart_status

`restart_status`

The restart status for the Grid.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The restart_status cannot be updated.

restart_status cannot be written.

rpz_hit_rate_interval

`rpz_hit_rate_interval`

The time interval (in seconds) that determines how often the appliance calculates the RPZ hit rate.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

rpz_hit_rate_max_query

`rpz_hit_rate_max_query`

The maximum number of incoming queries between the RPZ hit rate checks.

Type

Unsigned integer.

Create

The default value is *100000*.

Search

The field is not available for search.

rpz_hit_rate_min_query

`rpz_hit_rate_min_query`

The minimum number of incoming queries between the RPZ hit rate checks.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

scheduled_backup

`scheduled_backup`

The scheduled backup configuration.

Type

A/An Scheduled backup settings struct.

Create

The default value is:

```
  { 'backup_frequency': 'WEEKLY',
'backup_type': 'LOCAL',
'discovery_data': True,
'download_keys': False,
'enable': True,
'hour_of_day': 3,
'keep_local_copy': False,
'key_type': 'id_rsa',
'minutes_past_hour': 0,
'nios_data': True,
'operation': 'NONE',
'restore_type': 'FTP',
'splunk_app_data': True,
'status': 'IDLE',
'upload_keys': False,
'use_keys': False,
'weekday': 'SATURDAY'}
```

Search

The field is not available for search.

secret

secret

The shared secret of the Grid. This is a write-only attribute.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

secret is not readable.

security_banner_setting

security_banner_setting

The Grid security banner settings.

Type

A/An Security banner settings struct.

Create

The default value is:

```
{'color': 'GREEN', 'enable': False, 'level': 'UNCLASSIFIED'}
```

Search

The field is not available for search.

security_setting

security_setting

The Grid security settings. To update or modify a value in security_setting through WAPI,it is mandatory to specify all writable fields and parameters in the WAPI command. Else the ACL field [admin_access_items] will be removed.

Type

A/An Security settings struct.

Create

The default value is:

```
  { 'admin_access_items': [],
```

```
'audit_log_rolling_enable': True,
'disable_concurrent_login': False,
'http_redirect_enable': False,
'login_banner_enable': True,
'login_banner_text': 'Disconnect NOW if you have not been expressly '
                     'authorized to use this system.',
'remote_console_access_enable': False,
'security_access_enable': False,
'security_access_remote_console_enable': True,
'session_timeout': 600,
'ssh_perm_enable': True,
'support_access_enable': False}
```

Search

The field is not available for search.

service_status

`service_status`

Determines overall service status of the Grid.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- OFFLINE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The service_status cannot be updated.

service_status cannot be written.

snmp_setting

`snmp_setting`

The Grid SNMP settings.

Type

A/An SNMP setting struct.

Create

The default value is:

```
  { 'queries_enable': False,
'snmpv3_queries_enable': False,
'snmpv3_traps_enable': False,
'syscontact': [],
'sysdescr': [],
```

```
'syslocation': [],
'sysname': [],
'trap_receivers': [],
'traps_enable': False}
```

Search

The field is not available for search.

support_bundle_download_timeout

support_bundle_download_timeout

Support bundle download timeout in seconds.

Type

Unsigned integer.

Create

The default value is *1200*.

Search

The field is not available for search.

syslog_facility

syslog_facility

If ‘audit_to_syslog_enable’ is set to True, the facility that determines the processes and daemons from which the log messages are generated.

Type

String.

Valid values are:

- DAEMON
- LOCAL0
- LOCAL1
- LOCAL2
- LOCAL3
- LOCAL4
- LOCAL5
- LOCAL6
- LOCAL7

Create

The default value is *DAEMON*.

Search

The field is not available for search.

syslog_servers

syslog_servers

The list of external syslog servers.

Type

A/An Syslog server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

syslog_size

`syslog_size`

The maximum size for the syslog file expressed in megabytes.

Type

Unsigned integer.

Create

The default value is *300*.

Search

The field is not available for search.

threshold_traps

`threshold_traps`

Determines the list of threshold traps. The user can only change the values for each trap or remove traps.

Type

A/An The Grid SNMP threshold trap structure struct array.

Create

The default value is *All threshold traps*.

Search

The field is not available for search.

time_zone

`time_zone`

The time zone of the Grid. The UTC string that represents the time zone, such as “US/Eastern”.

Type

String.

Create

The default value is *UTC*.

Search

The field is not available for search.

token_usage_delay

`token_usage_delay`

The delayed usage (in minutes) of a permission token.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

traffic_capture_auth_dns_setting

`traffic_capture_auth_dns_setting`

Grid level settings for enabling authoritative DNS latency thresholds for automated traffic capture.

Type

A/An Grid level settings for traffic capture based on authoritative DNS struct.

Create

The default value is:

```
  { 'auth_dns_latency_listen_on_source': 'VIP_V4',
'auth_dns_latency_trigger_enable': False}
```

Search

The field is not available for search.

traffic_capture_chr_setting

`traffic_capture_chr_setting`

Grid level settings for enabling DNS cache hit ratio threshold for automated traffic capture.

Type

A/An Grid level Traffic capture chr setting struct.

Create

The default value is:

```
{'chr_trigger_enable': False}
```

Search

The field is not available for search.

traffic_capture_qps_setting

`traffic_capture_qps_setting`

Grid level settings for enabling DNS query per second threshold for automated traffic capture.

Type

A/An Grid level traffic capture QPS setting struct.

Create

The default value is:

```
{'qps_trigger_enable': False}
```

Search

The field is not available for search.

traffic_capture_rec_dns_setting

`traffic_capture_rec_dns_setting`

Grid level settings for enabling recursive DNS latency thresholds for automated traffic capture.

Type

A/An Grid level settings for traffic capture based on recursive struct.

Create

The default value is:

```
  { 'kpi_monitored_domains': [],
'rec_dns_latency_listen_on_source': 'VIP_V4',
'rec_dns_latency_trigger_enable': False}
```

Search

The field is not available for search.

traffic_capture_rec_queries_setting

`traffic_capture_rec_queries_setting`

Grid level settings for enabling count for concurrent outgoing recursive queries for automated traffic capture.

Type

A/An Grid level settings for traffic capture based on recursive struct.

Create

The default value is:

```
{'recursive_clients_count_trigger_enable': False}
```

Search

The field is not available for search.

trap_notifications

`trap_notifications`

Determines configuration of the trap notifications.

Type

A/An The Grid SNMP trap notification structure struct array.

Create

The default value is *All trap notifications*.

Search

The field is not available for search.

updates_download_member_config

`updates_download_member_config`

The list of member configuration structures, which provides information and settings for configuring the member that is responsible for downloading updates.

Type

A/An Updates Download Member Configuration struct array.

Create

The default value is:

```
[{'interface': 'ANY', 'is_online': True, 'member': None}]
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vpn_port

`vpn_port`

The VPN port.

Type

Unsigned integer.

Create

The default value is *1194*.

Search

The field is not available for search.

Function Calls

control_ip_address

Use this function to control selected IP addresses.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

addresses (String array.). This parameter is mandatory. The IP addresses list.

exclude (Bool.) This flag controls whether selected IP addresses should be excluded.

network_view (String.) The name of the network view in which this IP addresses resides.

Output fields

None

download_join_file

This function retrieves join file for the grid. See the file downloading sample code in the manual here and the fileop object for more information.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

token (String.) The token is used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

empty_recycle_bin

Empty the recycle bin.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

generate_join_info

This function retrieves join information for the grid.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

mgm_communication_mode (String. Valid values are: “MODE1”, “MODE2”). This parameter is mandatory. Specifies the mod whether msster grid initiated or subgrid initiated

Output fields

expiration (Timestamp.) The timestamp when the sub grid join token expires.

join_token (String.) The join token.

generate_tsig_key

This function is used to generate TSIG key.

This function does not support multiple object matches when called as part of

an atomic insertion operation.

Input fields

tsig_key_algorithm (String. Valid values are: “HMAC-MD5”, “HMAC-SHA256”) The TSIG key algorithm. The default value is “HMAC-MD5”.

tsig_key_size (String. Valid values are: “128”, “256”, “512”) The TSIG key size. The default value is “128”.

Output fields

tsig_key (String.) The TSIG key generated.

get_all_template_vendor_id

Use this function to get all unique vendor identifiers for the outbound templates.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

outbound_type (String. Valid values are: “REST”, “DXL”, “SYSLOG”) The outbound type of the templates. The default value is “REST”.

Output fields

vendor_identifiers (String array.) The vendor identifiers.

get_grid_revert_status

This function is used to retrieve the revert status of the Infoblox Grid.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

revert_allowed (Bool.) Determines whether a revert is allowed.

revert_version (String.) The revert version.

get_rpz_threat_details

Requests RPZ threat details through the ThreatStop RESTful API.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

rpz_rule_name (String.). This parameter is mandatory. The RPZ rule name.

Output fields

active (Bool.) The rule status whether it is active or not.

danger_level (Unsigned integer.) The value of a danger level.

description (String.) The description.

first_identified (Timestamp.) The timestamp when the threat was first identified.

known (Bool.) The rule status whether it is known or not.

last_seen (Timestamp.) The timestamp when the threat was first identified.

name (String.) The threat name.

public_description (String.) The public description about the threat.

short_description (String.) The short description about the threat.

get_template_schema_versions

Get all schema versions for the RESTful API templates.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

schema_type (String. Valid values are: “REST_ENDPOINT”, “REST_EVENT”). This parameter is mandatory. The type of RESTful API template schema to be exported.

Output fields

versions (String array.) The RESTful API template versions sorted in ascending order.

join

Join an Infoblox appliance to an existing grid.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

grid_name (String.). This parameter is mandatory. The name of the grid.

master (String.). This parameter is mandatory. The virtual IP address of the grid master.

shared_secret (String.). This parameter is mandatory. The shared secret string of the grid.

Output fields

None

join_mgm

This function allows a Grid to join the Multi-Grid Master.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

connection_disabled (Bool.) Indicates whether the sub-grid is currently disabled (true) or not (false)

discovery_sync_disabled (Bool.) Indicates if this subgrid have discovery service enabled.

file_token (String.). This parameter is mandatory. The token returned by the uploadinit function call in object fileop.

grid_name (String.) The name of the managed Grid cluster.

join_token (String.). This parameter is mandatory. Join token associated with the file.

sgm_address (String.). This parameter is mandatory. FQDN or IP of the SGM.

sgm_port (Unsigned integer.) Port of the OpenVPN service.

use_mgmt_port (Bool.) Whether to use management port or not.

Output fields

None

join_mgm_mod2

This function allows a Grid to join the Sub-Grid.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

connection_disabled (Bool.) Indicates whether the sub-grid is currently disabled (true) or not (false)

discovery_sync_disabled (Bool.) Indicates if this subgrid have discovery service enabled.

grid_name (String.) The name of the managed Grid cluster.

mgm_communication_mode (String.). This parameter is mandatory. MGM Communication Mode

sgm_address (String.) FQDN or IP of the SGM.

use_mgmt_port (Bool.) Whether to use management port or not.

Output fields

None

leave_mgm

This function allows a Grid to leave the Multi-Grid Master.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

member_upgrade

Use this function to upgrade a single member that was reverted during the staged upgrade process or to revert a single member if it does not behave properly after an upgrade.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “UPGRADE”, “REVERT”) The action to execute. The default value is “UPGRADE”.

member (String.). This parameter is mandatory. The FQDN of the member to be upgraded.

Output fields

None

node_registration

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

hardware_id (String.). This parameter is mandatory. Hardware ID.

hardware_model (String.). This parameter is mandatory. Hardware Model

hardware_type (String.). This parameter is mandatory. Hardware Type

licenses (String array.). This parameter is mandatory. List Of Licenses

token (String.). This parameter is mandatory. Identifier of the Physical Node that is used to Join to the Grid.

Output fields

gm_ip_join (String.) Grid Master IP address that must be used for joining

grid_name (String.) Grid Name

grid_secret (String.) Grid Secret

hardware_id (String.) Hardware ID.

licenses (String array.) List Of Licenses

use_mgmt_port_to_join (Bool.) Set to True if member must use its MGMT port while joining the Grid.The default value is “False”.

publish_changes

Publish configuration changes to all Grid members or to a particular one.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

member (String.) The member for which the changes are published.

member_order (String. Valid values are: “SIMULTANEOUSLY”, “SEQUENTIALLY”) Determines whether changes are published on all members without delay (‘SIMULTANEOUSLY’) or with delay (‘SEQUENTIALLY’). The default value is “SIMULTANEOUSLY”.

sequential_delay (Unsigned integer.) The delay between publishing configuration changes on members in seconds. The default value is “0”.

services (String. Valid values are: “ALL”, “ATP”) The service name to which configuration changes should be sent. The default value is “ALL”.

Output fields

None

query_fqdn_on_member

Invokes dig command on a member for a specific FQDN.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

fqdn (String.). This parameter is mandatory. The FQDN to query.

member (String.) The host name of the member. If no value is passed then Grid master will be treated as a member. The default value is “None”.

name_server (String.) The Name Server to query, either a name or IPv4/6 address. The default value is “”.

record_type (String. Valid values are: “ANY”, “A”, “AAAA”, “CNAME”, “DNAME”, “MX”, “NAPTR”, “NS”, “PTR”, “SRV”, “TXT”, “AXFR”, “SVCB”, “HTTPS”) The resource record type. The default value is “ANY”.

recursive_query (Bool.) Determines if this query is recursive or not. The default value is “True”.

source_ip (String.) This parameter sets the source IP address of the query. If any member IP is passed as input for the source_ip field, then the member field should also be passed with the corresponding member hostname. The default value is “None”.

Output fields

dig_started (Timestamp.) The timestamp when the dig started.

result (String. Valid values are: “NOERROR”, “FORMERR”, “SERVFAIL”, “NXDOMAIN”, “NOTIMP”, “REFUSED”, “INTERNAL_ERROR”) The dig request return code.

result_text (String.) The dig result text, multi-lined text.

source_address (String.) The source IP address of the query. If the ‘source_ip’ field is not specified but the ‘name_server’ field is specified, then the DNS query is sent from an available interface on the member and the value of the source_address’ field will be “any”.

requestrestartservicestatus

Use this function to request the Grid service status. This function will refresh the restartservicestatus object.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

service_option (String. Valid values are: “ALL”, “DHCP”, “DNS”) This field indicates the services for which you want to request status. The default value is “ALL”.

Output fields

None

restartservices

This function controls the Grid services. Please note that fields ‘member_order’, ‘service_option’ and ‘sequential_delay’ are deprecated from NIOS-9.0.7 version onwards. Instead, use ‘mode’, ‘services’ and ‘restart_setting’ of the grid:dns or grid:dhcpproperties.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

groups (String array.) The list of the Service Restart Groups to restart.

members (String array.) The list of the Grid Members to restart.

mode (String. Valid values are: “GROUPED”, “SEQUENTIAL”, “SIMULTANEOUS”) The restart method in case of grid restart. The default value is “None”.

restart_option (String. Valid values are: “FORCE_RESTART”, “RESTART_IF_NEEDED”) This field controls whether services are restarted unconditionally or when needed. The default value is “RESTART_IF_NEEDED”.

services (String. Valid values are: “ALL”, “DNS”, “DHCP”, “DHCPV4”, “DHCPV6”) The list of services the restart applicable to. The default value is “ALL”.

user_name (String.) Name of the user requesting the restart. The default value is “None”.

Output fields

None

skip_member_upgrade

This function allows the specified member to skip the upgrade process.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

member (String.). This parameter is mandatory. The FQDN of the member that will skip the upgrade process.

Output fields

None

start_discovery

Use this function to start the discovery on selected objects.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

objects (String array.). This parameter is mandatory. The list of refs to the relevant IPAM objects (Network, Network Container, IP Address, Fixed Address, Host Record, Range).

Output fields

None

test_csp_api_connectivity

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

password (String.) The password for the CspApiConfig.

username (String.) The user name for the CspApiConfig.

Output fields

error_message (String.) The error message when the test connectivity failed.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status for the connectivity test.

test_syslog_backup_server_connection

This function can be used to test the connection to the external backup syslog server.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

member (String.) The member for testing the connection.

syslog_backup_server (A/An External syslog backup server struct.). This parameter is mandatory. The syslog backup server for testing the connection.

Output fields

result (String. Valid values are: “CANNOT_CONNECT”, “TEST_OK”) The result of connection testing to the syslog server.

test_syslog_connection

Use this function to test a connection to the syslog server.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

syslog_server (A/An Syslog server struct.). This parameter is mandatory. The syslog server for testing the connection.

Output fields

result (String. Valid values are: “CANNOT_CONNECT”, “TEST_OK”, “CERTIFICATE_IS_NOT_VALID”) The result of connection testing to the syslog server.

upgrade

This function provides control over the Grid upgrade. The upgrade process normally is as follows: 1) Upload the upgrade file using the set_upgrade_file function call in object fileop 2) call this function with ‘action’ set to ‘UPLOAD’, this will prepare the uploaded file for deployment 3) call this function with ‘action’ set to ‘DISTRIBUTION_START’ which will start the Grid distribution process. 4) call this function with ‘action’ set to ‘UPGRADE_TEST_START’ to run the test upgrade (mandatory for WAPI version 2.14 and above before proceeding with actual upgrade). 5) call this function with ‘action’ set to ‘UPGRADE’ which will restart the appliances with the new NIOS version.

Note: Starting with WAPI version 2.14, API calls must execute test upgrade (step 4) before performing actual upgrade (step 5). If test upgrade fails, set ‘ignore_test_failure’ to true to proceed despite the failure. GUI clients and WAPI versions prior to 2.14 are exempt from this requirement.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “UPGRADE_PAUSE”, “UPGRADE_RESUME”, “DISTRIBUTION_PAUSE”, “DISTRIBUTION_RESUME”, “DISTRIBUTION_START”, “DISTRIBUTION_STOP”, “DOWNGRADE”, “REVERT”, “UPGRADE”, “UPGRADE_TEST_START”, “UPGRADE_TEST_STOP”, “UPLOAD”). This

parameter is mandatory. Upgrade action.

ignore_test_failure (Bool.) If true, allows upgrade to proceed even if test upgrade failed. Only applicable when action is UPGRADE and called via API. If test upgrade was not executed at all, upgrade will still be blocked. The default value is “False”.

Output fields

None

upgrade_group_now

This function is used to run the immediate upgrade of the specified group.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

upgrade_group (String.). This parameter is mandatory. The upgrade group name to start the upgrade.

Output fields

None

upload_keytab

This function is used to upload the keytab file to the server that is not assigning the keys.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

keys (A/An kerberoskey object array.) The list of GSS-TSIG keys uploaded to the appliance.

validatecertificates

Validates idns certificates and all certificates from /infoblox/security/certs with openssl

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

complete_verification_result (A/An Openssl verification result for one certificate struct array.) An array for storing certificates serials/filenames and

openssl messages.

Fields List

Field	Type	Req	R/O	Base	Search
allow_recursive_deletion	String	N	N	N	N/A
audit_log_format	String	N	N	N	N/A
audit_to_syslog_enable	Bool	N	N	N	N/A
automated_traffic_capture_setting	struct	N	N	N	N/A
consent_banner_setting	struct	N	N	N	N/A
csp_api_config	struct	N	N	N	N/A
csp_grid_setting	struct	N	N	N	N/A
deny_mgm_snapshots	Bool	N	N	N	N/A
descendants_action	struct	N	N	N	N/A
dns_resolver_setting	struct	N	N	N	N/A
dscp	Unsigned int	N	N	N	N/A
email_setting	struct	N	N	N	N/A
enable_federation	Bool	N	N	N	N/A
enable_force_sync_join_token_to_gmc	Bool	N	N	N	N/A
enable_gui_api_for_lan_vip	Bool	N	N	N	N/A
enable_lom	Bool	N	N	N	N/A
enable_member_redirect	Bool	N	N	N	N/A
enable_recycle_bin	Bool	N	N	N	N/A
enable_rir_swip	Bool	N	N	N	N/A
external_syslog_backup_servers	[struct]	N	N	N	N/A
external_syslog_server_enable	Bool	N	N	N	N/A
http_proxy_server_setting	struct	N	N	N	N/A
informational_banner_setting	struct	N	N	N	N/A
is_grid_visualization_visible	Bool	N	N	N	N/A
lockout_setting	struct	N	N	N	N/A
lom_users	[struct]	N	N	N	N/A
mgm_strict_delegate_mode	Bool	N	N	N	N/A
ms_setting	struct	N	N	N	N/A
name	String	N	N	N	~
nat_groups	[String]	N	N	N	N/A
ntp_setting	struct	N	N	N	N/A
objects_changes_tracking_setting	struct	N	N	N	N/A
password_setting	struct	N	N	N	N/A
restart_banner_setting	struct	N	N	N	N/A
restart_status	String	N	Y	N	N/A
rpz_hit_rate_interval	Unsigned int	N	N	N	N/A
rpz_hit_rate_max_query	Unsigned int	N	N	N	N/A
rpz_hit_rate_min_query	Unsigned int	N	N	N	N/A
scheduled_backup	struct	N	N	N	N/A
secret	String	N	N	N	N/A
security_banner_setting	struct	N	N	N	N/A
security_setting	struct	N	N	N	N/A
service_status	String	N	Y	N	N/A

snmp_setting	struct	N	N	N	N/A
support_bundle_download_timeout	Unsigned int	N	N	N	N/A
syslog_facility	String	N	N	N	N/A
syslog_servers	[struct]	N	N	N	N/A
syslog_size	Unsigned int	N	N	N	N/A
threshold_traps	[struct]	N	N	N	N/A
time_zone	String	N	N	N	N/A
token_usage_delay	Unsigned int	N	N	N	N/A
traffic_capture_auth_dns_setting	struct	N	N	N	N/A
traffic_capture_chr_setting	struct	N	N	N	N/A
traffic_capture_qps_setting	struct	N	N	N	N/A
traffic_capture_rec_dns_setting	struct	N	N	N	N/A
traffic_capture_rec_queries_setting	struct	N	N	N	N/A
trap_notifications	[struct]	N	N	N	N/A
updates_download_member_config	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vpn_port	Unsigned int	N	N	N	N/A

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grid:cloudapi : Grid Cloud API object.
- Object Reference
- Restrictions
- Fields
  - allow_api_admins
  - allowed_api_admins
  - enable_recycle_bin
  - gateway_config
  - uuid
- Fields List

Previous topic

grid : Grid object.

Next topic

grid:cloudapi:cloudstatistics : Grid Cloud Statistics object.

grid:cloudapi : Grid Cloud API object.

This object represents the Cloud Grid.

Object Reference

References to grid:cloudapi are object references. The *name* part of a Grid Cloud API object reference has the following components:

- The 'grid' string

Example (using _ref or UUID):

```
# Using _ref grid:cloudapi/ZGldHdvcmtfdmlldyQxMTk:grid

# Using UUID grid:cloudapi/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **allow_api_admins, allowed_api_admins, enable_recycle_bin, uuid**.

allow_api_admins

`allow_api_admins`

Defines administrators who can perform cloud API requests on the Grid Master. The valid value is NONE (no administrator), ALL (all administrators), or LIST (administrators on the ACL).

Type

String.

Valid values are:

- ALL
- LIST
- NONE

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The allow_api_admins is part of the base object.

allowed_api_admins

`allowed_api_admins`

The list of administrators who can perform cloud API requests on the Cloud Platform Appliance.

Type

A/An Cloud user struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The allowed_api_admins is part of the base object.

enable_recycle_bin

`enable_recycle_bin`

Determines whether the recycle bin for deleted cloud objects is enabled or not on the Grid Master.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The enable_recycle_bin is part of the base object.

gateway_config

`gateway_config`

Structure containing all the information related to Gateway configuration for the Grid Master

Type

A/An Gateway config struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allow_api_admins	String	N	N	Y	N/A
allowed_api_admins	[struct]	N	N	Y	N/A
enable_recycle_bin	Bool	N	N	Y	N/A
gateway_config	struct	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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grid:cloudapi:cloudstatistics : Grid Cloud Statistics object.
- Object Reference
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- Fields
  - allocated_available_ratio
  - allocated_ip_count
  - available_ip_count
  - fixed_ip_count
  - floating_ip_count
  - tenant_count
  - tenant_ip_count
  - tenant_vm_count
- Fields List

Previous topic

grid:cloudapi : Grid Cloud API object.

Next topic

grid:cloudapi:tenant : Grid Cloud API Tenant object.

grid:cloudapi:cloudstatistics : Grid Cloud Statistics object.

Represents the cloud statistics data.

Object Reference

References to grid:cloudapi:cloudstatistics are object references. The *name* part of a Grid Cloud Statistics object reference has the following components:

- The “CloudStatistics” string

Example: grid:cloudapi:cloudstatistics/ZGldHdvcmtfdmlldyQxMTk:CloudStatistics

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **allocated_available_ratio, allocated_ip_count, available_ip_count, fixed_ip_count, floating_ip_count, tenant_count, tenant_ip_count, tenant_vm_count**.

allocated_available_ratio

`allocated_available_ratio`

Ratio of allocated vs. available IPs

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The allocated_available_ratio is part of the base object.

The allocated_available_ratio cannot be updated.

allocated_available_ratio cannot be written.

allocated_ip_count

`allocated_ip_count`

Total number of IPs allocated by tenants.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The allocated_ip_count is part of the base object.

The allocated_ip_count cannot be updated.

allocated_ip_count cannot be written.

available_ip_count

`available_ip_count`

The total number of IP addresses available to tenants. Only IP addresses in networks that are within a delegation scope are counted.

Type

String.

Search

The field is not available for search.

Notes

The available_ip_count is part of the base object.

The available_ip_count cannot be updated.

available_ip_count cannot be written.

fixed_ip_count

`fixed_ip_count`

The total number of fixed IP addresses currently in use by all tenants in the system.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The fixed_ip_count is part of the base object.

The fixed_ip_count cannot be updated.

fixed_ip_count cannot be written.

floating_ip_count

`floating_ip_count`

The total number of floating IP addresses currently in use by all tenants in the system.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The floating_ip_count is part of the base object.

The floating_ip_count cannot be updated.

floating_ip_count cannot be written.

tenant_count

`tenant_count`

Total number of tenant currently in the system.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The tenant_count is part of the base object.

The tenant_count cannot be updated.

tenant_count cannot be written.

tenant_ip_count

`tenant_ip_count`

The total number of IP addresses currently in use by all tenants in the system.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The tenant_ip_count is part of the base object.

The tenant_ip_count cannot be updated.

tenant_ip_count cannot be written.

tenant_vm_count

`tenant_vm_count`

The total number of VMs currently in use by all tenants in the system.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The tenant_vm_count is part of the base object.

The tenant_vm_count cannot be updated.

tenant_vm_count cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allocated_available_ratio	Unsigned int	N	Y	Y	N/A
allocated_ip_count	Unsigned int	N	Y	Y	N/A
available_ip_count	String	N	Y	Y	N/A
fixed_ip_count	Unsigned int	N	Y	Y	N/A
floating_ip_count	Unsigned int	N	Y	Y	N/A
tenant_count	Unsigned int	N	Y	Y	N/A
tenant_ip_count	Unsigned int	N	Y	Y	N/A
tenant_vm_count	Unsigned int	N	Y	Y	N/A

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grid:cloudapi:tenant : Grid Cloud API Tenant object.
- Object Reference
- Restrictions
- Fields
  - cloud_info
  - comment
  - created_ts
  - id
  - last_event_ts
  - name
  - network_count
  - uuid
  - vm_count
- Fields List

Previous topic

grid:cloudapi:cloudstatistics : Grid Cloud Statistics object.

Next topic

grid:cloudapi:vm : Grid Cloud API vm object.

grid:cloudapi:tenant : Grid Cloud API Tenant object.

A Tenant object represents an abstract administrative concept in Cloud Management Platforms, which encompasses all network elements such as networks, zones, VMs, IP addresses (fixed and floating), network views, default DNS view, and all related extensive attributes.

Object Reference

References to grid:cloudapi:tenant are object references. The *name* part of a Grid Cloud API Tenant object reference has the following components:

- ID of the Grid Cloud API Tenant
- Name of the Grid Cloud API Tenant

Example (using _ref or UUID):

```
# Using _ref
grid:cloudapi:tenant/ZGldHdvcmtfdmlldyQxMTk:tenant1

# Using UUID
grid:cloudapi:tenant/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, id, name, uuid**.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the Grid Cloud API Tenant object; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

created_ts

`created_ts`

The timestamp when the tenant was first created in the system.

Type

Timestamp.

Search

The field is not available for search.

Notes

The created_ts cannot be updated.

created_ts cannot be written.

id

`id`

Unique ID associated with the tenant. This is set only when the tenant is first created.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The id is part of the base object.

The id cannot be updated.

id cannot be written.

last_event_ts

`last_event_ts`

The timestamp when the last event associated with the tenant happened.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_event_ts cannot be updated.

last_event_ts cannot be written.

name

`name`

Name of the tenant.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_count

`network_count`

Number of Networks associated with the tenant.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The network_count cannot be updated.

network_count cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vm_count

`vm_count`

Number of VMs associated with the tenant.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The vm_count cannot be updated.

vm_count cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	Y	: = ~
created_ts	Timestamp	N	Y	N	N/A
id	String	N	Y	Y	=

last_event_ts	Timestamp	N	Y	N	N/A
name	String	N	N	Y	: = ~
network_count	Unsigned int	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
vm_count	Unsigned int	N	Y	N	N/A

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grid:cloudapi:vm : Grid Cloud API vm object.
- Object Reference
- Restrictions
- Fields
  - availability_zone
  - cloud_info
  - comment
  - elastic_ip_address
  - extattrs
  - first_seen
  - hostname
  - id
  - kernel_id
  - last_seen
  - name
  - network_count
  - operating_system
  - primary_mac_address
  - subnet_address
  - subnet_cidr
  - subnet_id
  - tenant_name
  - uuid
  - vm_type
  - vpc_address
  - vpc_cidr
  - vpc_id
  - vpc_name
- Fields List

Previous topic

grid:cloudapi:tenant : Grid Cloud API Tenant object.

Next topic

grid:cloudapi:vmaddress : Grid Cloud API VM address object.

grid:cloudapi:vm : Grid Cloud API vm object.

A vm object represents a virtual machine which encompasses network elements such as IP addresses (fixed and floating, private and public), DNS names and all related extensive attributes.

Object Reference

References to grid:cloudapi:vm are object references. The *name* part of a vm object reference has the following components:

- ID of the VM
- Name of the VM

Example (using _ref or UUID):

Using _ref grid:cloudapi:vm/ZGldHdvcmtfdmlldyQxMTk:i-bfc15674/vm1

Using UUID grid:cloudapi:vm/123e4567e89b12d3a456426614174000

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, id, name, uuid**.

availability_zone

`availability_zone`

Availability zone of the VM.

Type

String.

Search

The field is not available for search.

Notes

The availability_zone cannot be updated.

availability_zone cannot be written.

cloud_info

`cloud_info`

Structure containing all the cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the vm object; maximum 1024 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

elastic_ip_address

`elastic_ip_address`

Elastic IP address associated with the VM's primary interface.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The elastic_ip_address cannot be updated.

elastic_ip_address cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

first_seen

`first_seen`

The timestamp when the VM was first seen in the system.

Type

Timestamp.

Search

The field is not available for search.

Notes

The first_seen cannot be updated.

first_seen cannot be written.

hostname

`hostname`

Hostname part of the FQDN for the address associated with the VM's primary interface.

Type

String.

Search

The field is not available for search.

Notes

The hostname cannot be updated.

hostname cannot be written.

id

`id`

Unique ID associated with the VM. This is set only when the VM is first created.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The id is part of the base object.

The id cannot be updated.

id cannot be written.

kernel_id

`kernel_id`

Identifier of the kernel that this VM is running; maximum 128 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

last_seen

`last_seen`

The timestamp when the last event associated with the VM happened.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_seen cannot be updated.

last_seen cannot be written.

name

`name`

Name of the VM.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_count

`network_count`

Number of Networks containing any address associated with this VM.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The network_count cannot be updated.

network_count cannot be written.

operating_system

`operating_system`

Guest Operating system that this VM is running; maximum 128 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

primary_mac_address

`primary_mac_address`

MAC address associated with the VM’s primary interface.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The primary_mac_address cannot be updated.

primary_mac_address cannot be written.

subnet_address

`subnet_address`

Address of the network that is the container of the address associated with the VM’s primary interface.

Type

String.

Search

The field is not available for search.

Notes

The subnet_address cannot be updated.

subnet_address cannot be written.

subnet_cidr

`subnet_cidr`

CIDR of the network that is the container of the address associated with the VM's primary interface.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The subnet_cidr cannot be updated.

subnet_cidr cannot be written.

subnet_id

`subnet_id`

Subnet ID of the network that is the container of the address associated with the VM's primary interface.

Type

String.

Search

The field is not available for search.

Notes

The subnet_id cannot be updated.

subnet_id cannot be written.

tenant_name

`tenant_name`

Name of the tenant associated with the VM.

Type

String.

Search

The field is not available for search.

Notes

The tenant_name cannot be updated.

tenant_name cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vm_type

`vm_type`

VM type; maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

vpc_address

`vpc_address`

Network address of the parent VPC.

Type

String.

Search

The field is not available for search.

Notes

The vpc_address cannot be updated.

vpc_address cannot be written.

vpc_cidr

`vpc_cidr`

Network CIDR of the parent VPC.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The vpc_cidr cannot be updated.

vpc_cidr cannot be written.

vpc_id

vpc_id

Identifier of the parent VPC.

Type

String.

Search

The field is not available for search.

Notes

The vpc_id cannot be updated.

vpc_id cannot be written.

vpc_name

vpc_name

Name of the parent VPC.

Type

String.

Search

The field is not available for search.

Notes

The vpc_name cannot be updated.

vpc_name cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
availability_zone	String	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	Y	: = ~
elastic_ip_address	String	N	Y	N	=
extattrs	Extattr	N	N	N	ext
first_seen	Timestamp	N	Y	N	N/A
hostname	String	N	Y	N	N/A
id	String	N	Y	Y	=
kernel_id	String	N	N	N	N/A
last_seen	Timestamp	N	Y	N	N/A
name	String	N	N	Y	: = ~

network_count	Unsigned int	N	Y	N	N/A
operating_system	String	N	N	N	N/A
primary_mac_address	String	N	Y	N	=
subnet_address	String	N	Y	N	N/A
subnet_cidr	Unsigned int	N	Y	N	N/A
subnet_id	String	N	Y	N	N/A
tenant_name	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
vm_type	String	N	N	N	N/A
vpc_address	String	N	Y	N	N/A
vpc_cidr	Unsigned int	N	Y	N	N/A
vpc_id	String	N	Y	N	N/A
vpc_name	String	N	Y	N	N/A

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Table of Contents

grid:cloudapi:vmaddress : Grid Cloud API VM address object.
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- Fields
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  - address_type
  - associated_ip
  - associated_object_types
  - associated_objects
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Previous topic

grid:cloudapi:vmaddress : Grid Cloud API VM address object.

VM address is an abstract object that represents a virtual machine running on the Cloud Management Platform.

Object Reference

References to grid:cloudapi:vmaddress are object references. The *name* part of a Grid Cloud API VM address object reference has the following components:

- Name of Grid Cloud API VM address

Example: grid:cloudapi:vmaddress/ZGldHdvcmtfdmlldyQxMTk:vnname1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, is_ipv4, network_view, port_id, vm_name**.

address

`address`

The IP address of the interface.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

address_type

`address_type`

IP address type (Public, Private, Elastic, Floating, …).

Type

String.

Search

The field is not available for search.

Notes

The address_type cannot be updated.

address_type cannot be written.

associated_ip

`associated_ip`

Reference to associated IPv4 or IPv6 address.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The associated_ip cannot be updated.

associated_ip cannot be written.

associated_object_types

associated_object_types

Array of string denoting the types of underlying objects IPv4/IPv6 - “A”, “AAAA”, “PTR”, “HOST”, “FA”, “RESERVATION”, “UNMANAGED” + (“BULKHOST”, “DHCP_RANGE”, “RESERVED_RANGE”, “LEASE”, “NETWORK”, “BROADCAST”, “PENDING”),

Type

String array.

Search

The field is not available for search.

Notes

The associated_object_types cannot be updated.

associated_object_types cannot be written.

associated_objects

associated_objects

The list of references to the object (Host, Fixed Address, RR, …) that defines this IP.

Type

An array of the following objects: fixedaddress, ipv6fixedaddress, ipv6range, lease, range, record:a, record:aaaa, record:host, record:host_ipv4addr, record:host_ipv6addr, record:ptr.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The associated_objects cannot be updated.

associated_objects cannot be written.

cloud_info

cloud_info

Structure containing all the cloud API related information. Only

management platform “mgmt_platform” is updated for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

dns_names

`dns_names`

The list of all FQDNs associated with the IP address.

Type

String array.

Search

The field is not available for search.

Notes

The dns_names cannot be updated.

dns_names cannot be written.

elastic_address

`elastic_address`

Elastic IP address associated with this private address, if this address is a private address; otherwise empty.

Type

String.

Search

The field is not available for search.

Notes

The elastic_address cannot be updated.

elastic_address cannot be written.

interface_name

`interface_name`

Name of the interface associated with this IP address.

Type

String.

Search

The field is not available for search.

Notes

The interface_name cannot be updated.

interface_name cannot be written.

is_ipv4

`is_ipv4`

Indicates whether the address is IPv4 or IPv6.

Type

Bool.

Search

The field is not available for search.

Notes

The is_ipv4 is part of the base object.

The is_ipv4 cannot be updated.

is_ipv4 cannot be written.

mac_address

`mac_address`

The MAC address of the interface.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mac_address cannot be updated.

mac_address cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network to which this address belongs, in IPv4 Address/CIDR format.

Type

String.

Search

The field is not available for search.

Notes

The network cannot be updated.

network cannot be written.

network_view

`network_view`

Network view name of the delegated object.

Type

String.

Search

The field is not available for search.

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

port_id

`port_id`

Port identifier of the interface.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The port_id is part of the base object.

The port_id cannot be updated.

port_id cannot be written.

private_address

`private_address`

Private IP address associated with this public (or elastic or floating) address, if this address is a public address; otherwise empty.

Type

String.

Search

The field is not available for search.

Notes

The private_address cannot be updated.

private_address cannot be written.

private_hostname

`private_hostname`

Host part of the FQDN of this address if this address is a private address; otherwise empty

Type

String.

Search

The field is not available for search.

Notes

The private_hostname cannot be updated.

private_hostname cannot be written.

public_address

`public_address`

Public IP address associated with this private address, if this address is a private address; otherwise empty.

Type

String.

Search

The field is not available for search.

Notes

The public_address cannot be updated.

public_address cannot be written.

public_hostname

`public_hostname`

Host part of the FQDN of this address if this address is a public (or elastic or floating) address; otherwise empty

Type

String.

Search

The field is not available for search.

Notes

The public_hostname cannot be updated.

public_hostname cannot be written.

subnet_address

`subnet_address`

Network address of the subnet that is the container of this address.

Type

String.

Search

The field is not available for search.

Notes

The subnet_address cannot be updated.

subnet_address cannot be written.

subnet_cidr

`subnet_cidr`

CIDR of the subnet that is the container of this address.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The subnet_cidr cannot be updated.

subnet_cidr cannot be written.

subnet_id

subnet_id

Subnet ID that is the container of this address.

Type

String.

Search

The field is not available for search.

Notes

The subnet_id cannot be updated.

subnet_id cannot be written.

tenant

tenant

The Cloud API Tenant object.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The tenant cannot be updated.

tenant cannot be written.

vm_availability_zone

vm_availability_zone

Availability zone of the VM.

Type

String.

Search

The field is not available for search.

Notes

The vm_availability_zone cannot be updated.

vm_availability_zone cannot be written.

vm_comment

vm_comment

VM comment.

Type

String.

Search

The field is not available for search.

Notes

The vm_comment cannot be updated.

vm_comment cannot be written.

vm_creation_time

vm_creation_time

Date/time the VM was first created as NIOS object.

Type

Timestamp.

Search

The field is not available for search.

Notes

The vm_creation_time cannot be updated.

vm_creation_time cannot be written.

vm_hostname

vm_hostname

Host part of the FQDN of the address attached to the primary interface.

Type

String.

Search

The field is not available for search.

Notes

The vm_hostname cannot be updated.

vm_hostname cannot be written.

vm_id

`vm_id`

The UUID of the Virtual Machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The vm_id cannot be updated.

vm_id cannot be written.

vm_kernel_id

`vm_kernel_id`

Kernel ID of the VM that this address is associated with.

Type

String.

Search

The field is not available for search.

Notes

The vm_kernel_id cannot be updated.

vm_kernel_id cannot be written.

vm_last_update_time

vm_last_update_time

Last time the VM was updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The vm_last_update_time cannot be updated.

vm_last_update_time cannot be written.

vm_name

vm_name

The name of the Virtual Machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The vm_name is part of the base object.

The vm_name cannot be updated.

vm_name cannot be written.

vm_network_count

vm_network_count

Count of networks containing all the addresses of the VM.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The vm_network_count cannot be updated.

vm_network_count cannot be written.

vm_operating_system

`vm_operating_system`

Operating system that the VM is running.

Type

String.

Search

The field is not available for search.

Notes

The vm_operating_system cannot be updated.

vm_operating_system cannot be written.

vm_type

`vm_type`

Type of the VM this address is associated with.

Type

String.

Search

The field is not available for search.

Notes

The vm_type cannot be updated.

vm_type cannot be written.

vm_vpc_address

`vm_vpc_address`

Network address of the VPC of the VM that this address is associated with.

Type

String.

Search

The field is not available for search.

Notes

The vm_vpc_address cannot be updated.

vm_vpc_address cannot be written.

vm_vpc_cidr

`vm_vpc_cidr`

CIDR of the VPC of the VM that this address is associated with.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The vm_vpc_cidr cannot be updated.

vm_vpc_cidr cannot be written.

vm_vpc_id

`vm_vpc_id`

Identifier of the VPC where the VM is defined.

Type

String.

Search

The field is not available for search.

Notes

The vm_vpc_id cannot be updated.

vm_vpc_id cannot be written.

vm_vpc_name

`vm_vpc_name`

Name of the VPC where the VM is defined.

Type

String.

Search

The field is not available for search.

Notes

The vm_vpc_name cannot be updated.

vm_vpc_name cannot be written.

vm_vpc_ref

`vm_vpc_ref`

Reference to the VPC where the VM is defined.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The vm_vpc_ref cannot be updated.

vm_vpc_ref cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

tenant_name

`tenant_name`

The name of the tenant associated with the VM.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

tenant_name is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	= ~
address_type	String	N	Y	N	N/A
associated_ip	String	N	Y	N	N/A
associated_object_types	[String]	N	Y	N	N/A
associated_objects	obj	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
dns_names	[String]	N	Y	N	N/A
elastic_address	String	N	Y	N	N/A
interface_name	String	N	Y	N	N/A
is_ipv4	Bool	N	Y	Y	N/A
mac_address	String	N	Y	N	= ~
ms_ad_user_data	struct	N	Y	N	N/A
network	String	N	Y	N	N/A
network_view	String	N	Y	Y	N/A
port_id	Unsigned int	N	Y	Y	N/A
private_address	String	N	Y	N	N/A
private_hostname	String	N	Y	N	N/A
public_address	String	N	Y	N	N/A
public_hostname	String	N	Y	N	N/A
subnet_address	String	N	Y	N	N/A
subnet_cidr	Unsigned int	N	Y	N	N/A
subnet_id	String	N	Y	N	N/A
tenant	String	N	Y	N	N/A
vm_availability_zone	String	N	Y	N	N/A
vm_comment	String	N	Y	N	N/A
vm_creation_time	Timestamp	N	Y	N	N/A
vm_hostname	String	N	Y	N	N/A
vm_id	String	N	Y	N	= ~
vm_kernel_id	String	N	Y	N	N/A
vm_last_update_time	Timestamp	N	Y	N	N/A
vm_name	String	N	Y	Y	= ~
vm_network_count	Unsigned int	N	Y	N	N/A

vm_operating_system	String	N	Y	N	N/A
vm_type	String	N	Y	N	N/A
vm_vpc_address	String	N	Y	N	N/A
vm_vpc_cidr	Unsigned int	N	Y	N	N/A
vm_vpc_id	String	N	Y	N	N/A
vm_vpc_name	String	N	Y	N	N/A
vm_vpc_ref	String	N	Y	N	N/A

Search-only Fields List

Field	Type	Search
tenant_name	String	= ~

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grid:cloudapi:vmaddress : Grid Cloud API VM address object.

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grid:dhcpproperties : Grid DHCP properties object.

grid:dashboard : Grid Dashboard object.

The Grid Dashboard object provides a configuration interface for threshold values that are used to warn about critical ATP, RPZ and Analytics events. These threshold values are used to calculate the security status for ATP, RPZ, and Analytics.

Object Reference

References to grid:dashboard are object references.

The *name* part of the object reference is always the “GridDashboard” string.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **analytics_tunneling_event_critical_threshold, analytics_tunneling_event_warning_threshold, atp_critical_event_critical_threshold, atp_critical_event_warning_threshold, atp_major_event_critical_threshold, atp_major_event_warning_threshold, atp_warning_event_critical_threshold, atp_warning_event_warning_threshold, rpz_blocked_hit_critical_threshold, rpz_blocked_hit_warning_threshold, rpz_passthru_event_critical_threshold, rpz_passthru_event_warning_threshold, rpz_substituted_hit_critical_threshold, rpz_substituted_hit_warning_threshold, uuid**.

analytics_tunneling_event_critical_threshold

`analytics_tunneling_event_critical_threshold`

The Grid Dashboard critical threshold for Analytics tunneling events.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

The analytics_tunneling_event_critical_threshold is part of the base object.

analytics_tunneling_event_warning_threshold

`analytics_tunneling_event_warning_threshold`

The Grid Dashboard warning threshold for Analytics tunneling events.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

Notes

The analytics_tunneling_event_warning_threshold is part of the base object.

atp_critical_event_critical_threshold

`atp_critical_event_critical_threshold`

The Grid Dashboard critical threshold for ATP critical events.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

The atp_critical_event_critical_threshold is part of the base object.

atp_critical_event_warning_threshold

`atp_critical_event_warning_threshold`

The Grid Dashboard warning threshold for ATP critical events.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

Notes

The atp_critical_event_warning_threshold is part of the base object.

atp_major_event_critical_threshold

`atp_major_event_critical_threshold`

The Grid Dashboard critical threshold for ATP major events.

Type

Unsigned integer.

Create

The default value is *100*.

Search

The field is not available for search.

Notes

The atp_major_event_critical_threshold is part of the base object.

atp_major_event_warning_threshold

`atp_major_event_warning_threshold`

The Grid Dashboard warning threshold for ATP major events.

Type

Unsigned integer.

Create

The default value is *20*.

Search

The field is not available for search.

Notes

The atp_major_event_warning_threshold is part of the base object.

atp_warning_event_critical_threshold

`atp_warning_event_critical_threshold`

The Grid Dashboard critical threshold for ATP warning events.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

Notes

The atp_warning_event_critical_threshold is part of the base object.

atp_warning_event_warning_threshold

`atp_warning_event_warning_threshold`

The Grid Dashboard warning threshold for ATP warning events.

Type

Unsigned integer.

Create

The default value is *100*.

Search

The field is not available for search.

Notes

The atp_warning_event_warning_threshold is part of the base object.

rpz_blocked_hit_critical_threshold

`rpz_blocked_hit_critical_threshold`

The critical threshold value for blocked RPZ hits in the Grid dashboard.

Type

Unsigned integer.

Create

The default value is *100*.

Search

The field is not available for search.

Notes

The rpz_blocked_hit_critical_threshold is part of the base object.

rpz_blocked_hit_warning_threshold

`rpz_blocked_hit_warning_threshold`

The warning threshold value for blocked RPZ hits in the Grid dashboard.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

The rpz_blocked_hit_warning_threshold is part of the base object.

rpz_passthru_event_critical_threshold

`rpz_passthru_event_critical_threshold`

The Grid Dashboard critical threshold for RPZ passthru events.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

Notes

The rpz_passthru_event_critical_threshold is part of the base object.

rpz_passthru_event_warning_threshold

`rpz_passthru_event_warning_threshold`

The Grid Dashboard warning threshold for RPZ passthru events.

Type

Unsigned integer.

Create

The default value is *100*.

Search

The field is not available for search.

Notes

The rpz_passthru_event_warning_threshold is part of the base object.

rpz_substituted_hit_critical_threshold

`rpz_substituted_hit_critical_threshold`

The critical threshold value for substituted RPZ hits in the Grid dashboard.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

The rpz_substituted_hit_critical_threshold is part of the base object.

rpz_substituted_hit_warning_threshold

`rpz_substituted_hit_warning_threshold`

The warning threshold value for substituted RPZ hits in the Grid dashboard.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

Notes

The rpz_substituted_hit_warning_threshold is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
analytics_tunneling_event_critical_threshold	Unsigned int	N	N	Y	N/A
analytics_tunneling_event_warning_threshold	Unsigned int	N	N	Y	N/A

atp_critical_event_critical_threshold	Unsigned int	N	N	Y	N/A
atp_critical_event_warning_threshold	Unsigned int	N	N	Y	N/A
atp_major_event_critical_threshold	Unsigned int	N	N	Y	N/A
atp_major_event_warning_threshold	Unsigned int	N	N	Y	N/A
atp_warning_event_critical_threshold	Unsigned int	N	N	Y	N/A
atp_warning_event_warning_threshold	Unsigned int	N	N	Y	N/A
rpz_blocked_hit_critical_threshold	Unsigned int	N	N	Y	N/A
rpz_blocked_hit_warning_threshold	Unsigned int	N	N	Y	N/A
rpz_passthru_event_critical_threshold	Unsigned int	N	N	Y	N/A
rpz_passthru_event_warning_threshold	Unsigned int	N	N	Y	N/A
rpz_substituted_hit_critical_threshold	Unsigned int	N	N	Y	N/A
rpz_substituted_hit_warning_threshold	Unsigned int	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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grid:dhcpproperties : Grid DHCP properties object.

This object represents a subset of the Infoblox Grid DHCP properties.

Object Reference

References to grid:dhcpproperties are object references. The *name* part of a Grid DHCP properties object reference has the following components:

- The name of the Infoblox Grid to which the DHCP properties apply.

Example (using _ref or UUID):

```
# Using _ref grid:dhcpproperties/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID grid:dhcpproperties/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

In addition the object does not support the following operations when managed on Cloud Platform members:

- Modify (update)

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **disable_all_nac_filters, grid, uuid**.

authority

`authority`

The Grid-level authority flag. This flag specifies whether a DHCP server is authoritative for a domain.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

bootfile

bootfile

The name of a file that DHCP clients need to boot. Some DHCP clients use BOOTP (bootstrap protocol) or include the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

bootserver

bootserver

The name of the server on which a boot file is stored.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

capture_hostname

capture_hostname

The Grid-level capture hostname flag. Set this flag to capture the hostname and lease time when assigning a fixed address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_domainname

ddns_domainname

The member DDNS domain name value.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ddns_generate_hostname

`ddns_generate_hostname`

Determines if the ability of a DHCP server to generate a host name and update DNS with this host name when it receives a DHCP REQUEST message that does not include a host name is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_retry_interval

`ddns_retry_interval`

Determines the retry interval when the DHCP server makes repeated attempts to send DDNS updates to a DNS server.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

ddns_server_always_updates

`ddns_server_always_updates`

Determines that only the DHCP server is allowed to update DNS, regardless of the requests from the DHCP clients.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DDNS TTL (Dynamic DNS Time To Live) value specifies the number of seconds an IP address for the name is cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

ddns_update_fixed_addresses

`ddns_update_fixed_addresses`

Determines if the Grid DHCP server's ability to update the A and PTR records with a fixed address is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_use_option81

`ddns_use_option81`

Determines if support for option 81 is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

Determines if deny BOOTP is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_all_nac_filters

`disable_all_nac_filters`

If set to True, NAC filters will be disabled on the Infoblox Grid.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable_all_nac_filters is part of the base object.

dns_update_style

`dns_update_style`

The update style for dynamic DNS updates.

Type

String.

Valid values are:

- INTERIM
- STANDARD

Create

The default value is *INTERIM*.

Search

The field is not available for search.

email_list

email_list

The Grid-level email_list value. Specify an e-mail address to which you want the Infoblox appliance to send e-mail notifications when the DHCP address usage for the grid crosses a threshold. You can create a list of several e-mail addresses.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_ddns

enable_ddns

Determines if the member DHCP server's ability to send DDNS updates is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dhcp_thresholds

enable_dhcp_thresholds

Represents the watermarks above or below which address usage in a network is unexpected and might warrant your attention.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_email_warnings

enable_email_warnings

Determines if e-mail warnings are enabled or disabled. When DHCP threshold is enabled and DHCP address usage crosses a watermark threshold, the appliance sends an e-mail notification to an administrator.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_fingerprint

enable_fingerprint

Determines if the fingerprint feature is enabled or not. If you enable this feature, the server will match a fingerprint for incoming lease requests.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_gss_tsig

enable_gss_tsig

Determines whether all appliances are enabled to receive GSS-TSIG authenticated updates from DHCP clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_hostname_rewrite

enable_hostname_rewrite

Determines if the Grid-level host name rewrite feature is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_leasequery

`enable_leasequery`

Determines if lease query is allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_roaming_hosts

`enable_roaming_hosts`

Determines if DHCP servers in a Grid support roaming hosts or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

`enable_snmp_warnings`

Determined if the SNMP warnings on Grid-level are enabled or not. When DHCP threshold is enabled and DHCP address usage crosses a watermark threshold, the appliance sends an SNMP trap to the trap receiver that you defined you defined at the Grid member level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

format_log_option_82

`format_log_option_82`

The format option for Option 82 logging.

Type

String.

Valid values are:

- HEX
- TEXT

Create

The default value is *HEX*.

Search

The field is not available for search.

grid

`grid`

Determines the Grid that serves DHCP. This specifies a group of Infoblox appliances that are connected together to provide a single point of device administration and service configuration in a secure, highly available environment.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The grid is part of the base object.

The grid cannot be updated.

grid cannot be written.

gss_tsig_keys

`gss_tsig_keys`

The list of GSS-TSIG keys for a Grid DHCP object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

high_water_mark

`high_water_mark`

Determines the high watermark value of a Grid DHCP server. If the percentage of allocated addresses exceeds this watermark, the appliance makes a syslog entry and sends an e-mail notification (if enabled). Specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

`high_water_mark_reset`

Determines the high watermark reset value of a member DHCP server. If the percentage of allocated addresses drops below this value, a corresponding SNMP trap is reset. Specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

hostname_rewrite_policy

`hostname_rewrite_policy`

The name of the default hostname rewrite policy, which is also in the protocol_hostname_rewrite_policies array.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *Default*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

Determines if the ignore DHCP option list request flag of a Grid DHCP is enabled or not. If this flag is set to true all available DHCP options will be returned to the client.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ignore_id

`ignore_id`

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses. Valid values are “NONE”, “CLIENT”, or “MACADDR”. The default is “NONE”.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

immediate_fa_configuration

`immediate_fa_configuration`

Determines if the fixed address configuration takes effect immediately without DHCP service restart or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_capture_hostname

`ipv6_capture_hostname`

Determines if the IPv6 host name and lease time is captured or not while assigning a fixed address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_ddns_domainname

`ipv6_ddns_domainname`

The Grid-level DDNS domain name value.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_ddns_enable_option_fqdn

`ipv6_ddns_enable_option_fqdn`

Controls whether the FQDN option sent by the client is to be used, or if the server can automatically generate the FQDN.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_ddns_server_always_updates

`ipv6_ddns_server_always_updates`

Determines if the server always updates DNS or updates only if requested by the client.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ipv6_ddns_ttl

`ipv6_ddns_ttl`

The Grid-level IPv6 DDNS TTL value.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

ipv6_default_prefix

ipv6_default_prefix

The Grid-level IPv6 default prefix.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_dns_update_style

ipv6_dns_update_style

The update style for dynamic DHCPv6 DNS updates.

Type

String.

Valid values are:

- INTERIM
- STANDARD

Create

The default value is *INTERIM*.

Search

The field is not available for search.

ipv6_domain_name

ipv6_domain_name

The IPv6 domain name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_domain_name_servers

ipv6_domain_name_servers

The comma separated list of domain name server addresses in IPv6 address format.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_enable_ddns

`ipv6_enable_ddns`

Determines if sending DDNS updates by the DHCPv6 server is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_enable_gss_tsig

`ipv6_enable_gss_tsig`

Determines whether the all appliances are enabled to receive GSS-TSIG authenticated updates from DHCPv6 clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_enable_lease_scavenging

`ipv6_enable_lease_scavenging`

Indicates whether DHCPv6 lease scavenging is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_enable_retry_updates

`ipv6_enable_retry_updates`

Determines if the DHCPv6 server retries failed dynamic DNS updates or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ipv6_generate_hostname

`ipv6_generate_hostname`

Determines if the server generates the hostname if it is not sent by the client.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_gss_tsig_keys

`ipv6_gss_tsig_keys`

The list of GSS-TSIG keys for a Grid DHCPv6 object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_kdc_server

ipv6_kdc_server

The IPv6 address or FQDN of the Kerberos server for DHCPv6 GSS-TSIG authentication.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_lease_scavenging_time

ipv6_lease_scavenging_time

The Grid-level grace period (in seconds) to keep an expired lease before it is deleted by the scavenging process.

Type

Unsigned integer.

Create

The default value is *604800*.

Search

The field is not available for search.

ipv6_microsoft_code_page

ipv6_microsoft_code_page

The Grid-level Microsoft client DHCP IPv6 code page value. This value is the hostname translation code page for Microsoft DHCP IPv6 clients.

Type

String.

Valid values are:

- Arabic (1256)
- Arabic (ISO-8859-6)
- Baltic (1257)
- Baltic (775)
- Baltic (ISO-8859-4)
- Central Europe (1250)
- Cyrillic (1251)
- Cyrillic (855)
- Cyrillic (ISO-8859-5)
- Greek (1253)

- Greek (737)
- Greek (ISO-8859-7)
- Hebrew (1255)
- Hebrew (862)
- Hebrew (ISO-8859-8)
- Japanese Shift-JIS (932)
- Korean (949)
- Latin 1 (ISO-8859-1)
- Latin 2 (ISO-8859-2)
- Latin 3 (ISO-8859-3)
- Latin 9 (ISO-8859-15)
- Latin I (1252)
- Latin II (852)
- Multilingual Latin I (850)
- None
- Russian (866)
- Simplified Chinese GBK (936)
- Thai (874)
- Traditional Chinese Big5 (950)
- Turkish (1254)
- Turkish (857)
- Turkish (ISO-8859-9)
- US (437)
- Vietnam (1258)

Create

The default value is *None*.

Search

The field is not available for search.

ipv6_options

`ipv6_options`

An array of DHCP option structs that lists the DHCPv6 options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

ipv6_prefixes

`ipv6_prefixes`

The Grid-level list of IPv6 prefixes.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_recycle_leases

`ipv6_recycle_leases`

Determines if the IPv6 recycle leases feature is enabled or not. If the feature is enabled, leases are kept in the Recycle Bin until one week after expiration. When the feature is disabled, the leases are irrecoverably deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ipv6_remember_expired_client_association

`ipv6_remember_expired_client_association`

Enable binding for expired DHCPv6 leases.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_retry_updates_interval

`ipv6_retry_updates_interval`

Determines the retry interval when the member DHCPv6 server makes repeated attempts to send DDNS updates to a DNS server.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

ipv6_txt_record_handling

`ipv6_txt_record_handling`

The Grid-level TXT record handling value. This value specifies how DHCPv6 should treat the TXT records when performing DNS updates.

Type

String.

Valid values are:

- IGNORE_CONTENTS
- ISC
- ISC_TRANSITIONAL
- MS

Create

The default value is *ISC*.

Search

The field is not available for search.

ipv6_update_dns_on_lease_renewal

`ipv6_update_dns_on_lease_renewal`

Controls whether the DHCPv6 server updates DNS when an IPv6 DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

kdc_server

`kdc_server`

The IPv4 address or FQDN of the Kerberos server for DHCPv4 GSS-TSIG authentication.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

lease_logging_member

`lease_logging_member`

The Grid member on which you want to store the DHCP lease history log. Infoblox recommends that you dedicate a member other than the master as a logging member. If possible, use this member solely for storing the DHCP lease history log. If you do not select a member, no logging can occur.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

lease_per_client_settings

`lease_per_client_settings`

Defines how the appliance releases DHCP leases. Valid values are “RELEASE_MACHING_ID”, “NEVER_RELEASE”, or “ONE_LEASE_PER_CLIENT”. The default is “RELEASE_MATCHING_ID”.

Type

String.

Valid values are:

- NEVER_RELEASE
- ONE_LEASE_PER_CLIENT
- RELEASE_MATCHING_ID

Create

The default value is *RELEASE_MATCHING_ID*.

Search

The field is not available for search.

lease_scavenge_time

`lease_scavenge_time`

Determines the lease scavenging time value. When this field is set, the appliance permanently deletes the free and backup leases, that remain in the database beyond a specified period of time.

To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

log_lease_events

`log_lease_events`

This value specifies whether the Grid DHCP members log lease events is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the Infoblox Grid.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

low_water_mark

`low_water_mark`

Determines the low watermark value. If the percent of allocated addresses drops below this watermark, the appliance makes a syslog entry and if enabled, sends an e-mail notification.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

`low_water_mark_reset`

Determines the low watermark reset value.If the percentage of allocated addresses exceeds this value, a corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

microsoft_code_page

`microsoft_code_page`

The Microsoft client DHCP IPv4 code page value of a Grid. This value is the hostname translation code page for Microsoft DHCP IPv4 clients.

Type

String.

Valid values are:

- Arabic (1256)
- Arabic (ISO-8859-6)
- Baltic (1257)
- Baltic (775)
- Baltic (ISO-8859-4)
- Central Europe (1250)
- Cyrillic (1251)
- Cyrillic (855)
- Cyrillic (ISO-8859-5)
- Greek (1253)
- Greek (737)
- Greek (ISO-8859-7)
- Hebrew (1255)
- Hebrew (862)
- Hebrew (ISO-8859-8)

Japanese Shift-JIS (932)
- Korean (949)
- Latin 1 (ISO-8859-1)
- Latin 2 (ISO-8859-2)
- Latin 3 (ISO-8859-3)
- Latin 9 (ISO-8859-15)
- Latin I (1252)
- Latin II (852)
- Multilingual Latin I (850)
- None
- Russian (866)
- Simplified Chinese GBK (936)
- Thai (874)
- Traditional Chinese Big5 (950)
- Turkish (1254)
- Turkish (857)
- Turkish (ISO-8859-9)
- US (437)
- Vietnam (1258)

Create

The default value is *None*.

Search

The field is not available for search.

nextserver

`nextserver`

The next server value of a DHCP server. This value is the IP address or name of the boot file server on which the boot file is stored.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

option60_match_rules

`option60_match_rules`

The list of option 60 match rules.

Type

A/An Option 60 Match Rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object. Note that WAPI does not return special options ‘routers’, ‘domain-name-servers’, ‘domain-name’ and ‘broadcast-address’ with empty values for this object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

ping_count

ping_count

Specifies the number of pings that the Infoblox appliance sends to an IP address to verify that it is not in use. Values are range is from 0 to 10, where 0 disables pings.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

ping_timeout

ping_timeout

Indicates the number of milliseconds the appliance waits for a response to its ping.

Valid values are 100, 500, 1000, 2000, 3000, 4000 and 5000 milliseconds.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

preferred_lifetime

`preferred_lifetime`

The preferred lifetime value.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

prefix_length_mode

`prefix_length_mode`

The Prefix length mode for DHCPv6.

Type

String.

Valid values are:

- EXACT
- IGNORE
- MAXIMUM
- MINIMUM
- PREFER

Create

The default value is *EXACT*.

Search

The field is not available for search.

protocol_hostname_rewrite_policies

`protocol_hostname_rewrite_policies`

The list of hostname rewrite policies.

Type

A/An hostnamerewritepolicy object array.

This field supports nested return fields as described here.

Create

The default value is *[{'name': 'Default', 'replacement_character': '-', 'valid_characters': 'a-z0-9_'}]*.

Search

The field is not available for search.

pxe_lease_time

`pxe_lease_time`

Specifies the duration of time it takes a host to connect to a boot server, such as a TFTP server, and download the file it needs to boot.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

recycle_leases

`recycle_leases`

Determines if the recycle leases feature is enabled or not. If you enabled this feature, and then delete a DHCP range, the appliance stores active leases from this range up to one week after the leases expires.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

restart_setting

`restart_setting`

The restart setting.

Type

A/An Restart Setting struct.

Create

The default value is:

```
{'delay': 10, 'restart_offline': True, 'timeout': 60}
```

Search

The field is not available for search.

retry_ddns_updates

retry_ddns_updates

Indicates whether the DHCP server makes repeated attempts to send DDNS updates to a DNS server.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

syslog_facility

syslog_facility

The syslog facility is the location on the syslog server to which you want to sort the syslog messages.

Type

String.

Valid values are:

- DAEMON
- LOCAL0
- LOCAL1
- LOCAL2
- LOCAL3
- LOCAL4
- LOCAL5
- LOCAL6
- LOCAL7

Create

The default value is *DAEMON*.

Search

The field is not available for search.

txt_record_handling

txt_record_handling

The Grid-level TXT record handling value. This value specifies how DHCP should treat the TXT records when performing DNS updates.

Type

String.

Valid values are:

- IGNORE_CONTENTS
- ISC
- ISC_TRANSITIONAL
- MS

Create

The default value is *ISC*.

Search

The field is not available for search.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

Controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

valid_lifetime

The valid lifetime for the Grid members.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
authority	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
capture_hostname	Bool	N	N	N	N/A
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_retry_interval	Unsigned int	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
disable_all_nac_filters	Bool	N	N	Y	N/A
dns_update_style	String	N	N	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_fingerprint	Bool	N	N	N	N/A
enable_gss_tsig	Bool	N	N	N	N/A
enable_hostname_rewrite	Bool	N	N	N	N/A
enable_leasequery	Bool	N	N	N	N/A
enable_roaming_hosts	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
format_log_option_82	String	N	N	N	N/A
grid	String	N	Y	Y	=
gss_tsig_keys	[obj]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
hostname_rewrite_policy	String	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A

immediate_fa_configuration	Bool	N	N	N	N/A
ipv6_capture_hostname	Bool	N	N	N	N/A
ipv6_ddns_domainname	String	N	N	N	N/A
ipv6_ddns_enable_option_fqdn	Bool	N	N	N	N/A
ipv6_ddns_server_always_updates	Bool	N	N	N	N/A
ipv6_ddns_ttl	Unsigned int	N	N	N	N/A
ipv6_default_prefix	String	N	N	N	N/A
ipv6_dns_update_style	String	N	N	N	N/A
ipv6_domain_name	String	N	N	N	N/A
ipv6_domain_name_servers	[String]	N	N	N	N/A
ipv6_enable_ddns	Bool	N	N	N	N/A
ipv6_enable_gss_tsig	Bool	N	N	N	N/A
ipv6_enable_lease_scavenging	Bool	N	N	N	N/A
ipv6_enable_retry_updates	Bool	N	N	N	N/A
ipv6_generate_hostname	Bool	N	N	N	N/A
ipv6_gss_tsig_keys	[obj]	N	N	N	N/A
ipv6_kdc_server	String	N	N	N	N/A
ipv6_lease_scavenging_time	Unsigned int	N	N	N	N/A
ipv6_microsoft_code_page	String	N	N	N	N/A
ipv6_options	[struct]	N	N	N	N/A
ipv6_prefixes	[String]	N	N	N	N/A
ipv6_recycle_leases	Bool	N	N	N	N/A
ipv6_remember_expired_client_association	Bool	N	N	N	N/A
ipv6_retry_updates_interval	Unsigned int	N	N	N	N/A
ipv6_txt_record_handling	String	N	N	N	N/A
ipv6_update_dns_on_lease_renewal	Bool	N	N	N	N/A
kdc_server	String	N	N	N	N/A
lease_logging_member	String	N	N	N	N/A
lease_per_client_settings	String	N	N	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
log_lease_events	Bool	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
microsoft_code_page	String	N	N	N	N/A
nextserver	String	N	N	N	N/A
option60_match_rules	[struct]	N	N	N	N/A
options	[struct]	N	N	N	N/A
ping_count	Unsigned int	N	N	N	N/A
ping_timeout	Unsigned int	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
prefix_length_mode	String	N	N	N	N/A
protocol_hostname_rewrite_policies	[obj]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A

restart_setting	struct	N	N	N	N/A
retry_ddns_updates	Bool	N	N	N	N/A
syslog_facility	String	N	N	N	N/A
txt_record_handling	String	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

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infoblox

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grid:dns : Grid DNS properties object.

This object supports DNS service management and configuration such as time-to-live (TTL) settings, zone transfers, queries, root name servers, dynamic updates, sort lists, Transaction Signatures (TSIG) for DNS and others, all at the grid level. The service configurations of a grid are inherited by all members, zones, and networks unless you specifically override them for selected members, zones, and networks. For this reason, it is recommended that you configure services at the grid level before configuring member, zone and network services.

Object Reference

References to grid:dns are object references. The *name* part of a Grid DNS properties object reference has the following components:

- The name of the Infoblox Grid to which the DNS properties apply.

Example (using _ref or UUID):

```
# Using _ref grid:dns/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID grid:dns/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

add_client_ip_mac_options

`add_client_ip_mac_options`

Add custom IP, MAC and DNS View name ENDS0 options to outgoing recursive queries.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_bulkhost_ddns

allow_bulkhost_ddns

Determines if DDNS bulk host is allowed or not.

Type

String.

Valid values are:

- REFUSAL
- SUCCESS

Create

The default value is *REFUSAL*.

Search

The field is not available for search.

allow_gss_tsig_zone_updates

allow_gss_tsig_zone_updates

Determines whether GSS-TSIG zone update is enabled for all Grid members.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_query

allow_query

Determines if queries from the specified IPv4 or IPv6 addresses and networks are allowed or not. The appliance can also use Transaction Signature (TSIG) keys to authenticate the queries.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

allow_recursive_query

`allow_recursive_query`

Determines if the responses to recursive queries are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_transfer

`allow_transfer`

Determines if zone transfers from specified IPv4 or IPv6 addresses and networks or transfers from hosts authenticated by Transaction signature (TSIG) key are allowed or not.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

allow_update

`allow_update`

Determines if dynamic updates from specified IPv4 or IPv6 addresses, networks or from host authenticated by TSIG key are allowed or not.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

anonymize_response_logging

anonymize_response_logging

Determines if the anonymization of captured DNS responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

attack_mitigation

attack_mitigation

Mitigation settings for DNS attacks.

Type

A/An DNS Attack Mitigation object struct.

Create

The default value is:

```
  { 'detect_chr': { 'enable': True,
                    'high': 80,
                    'interval_max': 100000,
                    'interval_min': 1000,
                    'interval_time': 10,
                    'low': 70},
'detect_chr_grace': 75,
'detect_nxdomain_responses': { 'enable': True,
                               'high': 80,
                               'interval_max': 100000,
                               'interval_min': 1000,
                               'interval_time': 10,
                               'low': 70},
'detect_udp_drop': { 'enable': True,
                     'high': 30,
                     'interval_min': 1000,
                     'interval_time': 10,
                     'low': 20},
'interval': 10}
```

Search

The field is not available for search.

auto_blackhole

auto_blackhole

The auto blackhole settings.

Type

A/An DNS Auto Blackhole settings struct.

Create

The default value is:

```
  { 'enable_fetches_per_server': False,
'enable_fetches_per_zone': False,
'enable_holddown': False,
'fetches_per_server': 500,
'fetches_per_zone': 200,
'fps_freq': 200,
'holddown': 60,
'holddown_threshold': 5,
'holddown_timeout': 1000}
```

Search

The field is not available for search.

bind_check_names_policy

`bind_check_names_policy`

The BIND check names policy, which indicates the action the appliance takes when it encounters host names that do not comply with the Strict Hostname Checking policy. This method applies only if the host name restriction policy is set to “Strict Hostname Checking”.

Type

String.

Valid values are:

- FAIL
- WARN

Create

The default value is *WARN*.

Search

The field is not available for search.

bind_hostname_directive

`bind_hostname_directive`

The value of the hostname directive for BIND.

Type

String.

Valid values are:

- HOSTNAME
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

blackhole_list

`blackhole_list`

The list of IPv4 or IPv6 addresses and networks from which DNS queries are blocked.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

blacklist_action

`blacklist_action`

The action to perform when a domain name matches the pattern defined in a rule that is specified by the blacklist ruleset.

Type

String.

Valid values are:

- REDIRECT
- REFUSE

Create

The default value is *REDIRECT*.

Search

The field is not available for search.

blacklist_log_query

`blacklist_log_query`

Determines if blacklist redirection queries are logged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

blacklist_redirect_addresses

blacklist_redirect_addresses

The IP addresses the appliance includes in the response it sends in place of a blacklisted IP address.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

blacklist_redirect_ttl

blacklist_redirect_ttl

The TTL value (in seconds) of the synthetic DNS responses that result from blacklist redirection.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

blacklist_rulesets

blacklist_rulesets

The DNS Ruleset object names assigned at the Grid level for blacklist redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

bulk_host_name_templates

bulk_host_name_templates

The list of bulk host name templates. There are four Infoblox predefined bulk host name templates. Template Name Template Format “Four Octets” -$1-$2-$3-$4 “Three Octets” -$2-$3-$4 “Two Octets” -$3-$4 “One Octet” -$4

Type

A/An bulkhostnametemplate object array.

This field supports nested return fields as described here.

Create

The default value is *[{'template_name': 'Four Octets', 'template_format': '-$1-$2-$3-$4', 'is_grid_default': True}, {'template_name': 'Three Octets', 'template_format': '-$2-$3-$4', 'is_grid_default': False}, {'template_name': 'Two Octets', 'template_format': '-$3-$4', 'is_grid_default': False}, {'template_name': 'One Octet', 'template_format': '-$4', 'is_grid_default': False}]*.

Search

The field is not available for search.

capture_dns_queries_on_all_domains

`capture_dns_queries_on_all_domains`

Determines if the capture of DNS queries for all domains is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

check_names_for_ddns_and_zone_transfer

`check_names_for_ddns_and_zone_transfer`

Determines whether the application of BIND check-names for zone transfers and DDNS updates are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

client_subnet_domains

`client_subnet_domains`

The list of zone domain names that are allowed or forbidden for EDNS client subnet (ECS) recursion.

Type

A/An The client subnet domain structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

client_subnet_ipv4_prefix_length

`client_subnet_ipv4_prefix_length`

Default IPv4 Source Prefix-Length used when sending queries with EDNS client subnet option.

Type

Unsigned integer.

Create

The default value is *24*.

Search

The field is not available for search.

client_subnet_ipv6_prefix_length

`client_subnet_ipv6_prefix_length`

Default IPv6 Source Prefix-Length used when sending queries with EDNS client subnet option.

Type

Unsigned integer.

Create

The default value is *56*.

Search

The field is not available for search.

copy_client_ip_mac_options

`copy_client_ip_mac_options`

Copy custom IP, MAC and DNS View name ENDS0 options from incoming to outgoing recursive queries.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

copy_xfer_to_notify

`copy_xfer_to_notify`

The allowed IPs, from the zone transfer list, added to the also-notify statement in the named.conf file.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

custom_root_name_servers

`custom_root_name_servers`

The list of customized root nameserver(s). You can use Internet root name servers or specify host names and IP addresses of custom root name servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ddns_force_creation_timestamp_update

`ddns_force_creation_timestamp_update`

Defines whether creation timestamp of RR should be updated ‘ when DDNS update happens even if there is no change to ‘ the RR.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_principal_group

ddns_principal_group

The DDNS Principal cluster group name.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

ddns_principal_tracking

ddns_principal_tracking

Determines if the DDNS principal track is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_restrict_patterns

ddns_restrict_patterns

Determines if an option to restrict DDNS update request based on FQDN patterns is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_restrict_patterns_list

ddns_restrict_patterns_list

The unordered list of restriction patterns for an option of to restrict DDNS updates

based on FQDN patterns.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ddns_restrict_protected

`ddns_restrict_protected`

Determines if an option to restrict DDNS update request to protected resource records is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_restrict_secure

`ddns_restrict_secure`

Determines if DDNS update request for principal other than target resource record's principal is restricted.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_restrict_static

`ddns_restrict_static`

Determines if an option to restrict DDNS update request to resource records which are marked as 'STATIC' is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

default_bulk_host_name_template

`default_bulk_host_name_template`

Default bulk host name of a Grid DNS.

Type

String.

Create

The default value is *Four Octets*.

Search

The field is not available for search.

default_ttl

`default_ttl`

The default TTL value of a Grid DNS object. This interval tells the secondary how long the data can be cached.

Type

Unsigned integer.

Create

The default value is *28800*.

Search

The field is not available for search.

disable_edns

`disable_edns`

Determines if the EDNS0 support for queries that require recursive resolution on Grid members is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns64_groups

dns64_groups

The list of DNS64 synthesis groups associated with this Grid DNS object.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_cache_acceleration_ttl

dns_cache_acceleration_ttl

The minimum TTL value, in seconds, that a DNS record must have in order for it to be cached by the DNS Cache Acceleration service.

An integer from 1 to 65000 that represents the TTL in seconds.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

dns_health_check_anycast_control

dns_health_check_anycast_control

Determines if the anycast failure (BFD session down) is enabled on member failure or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_health_check_domain_list

dns_health_check_domain_list

The list of domain names for the DNS health check.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_health_check_interval

`dns_health_check_interval`

The time interval (in seconds) for DNS health check.

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

dns_health_check_recursion_flag

`dns_health_check_recursion_flag`

Determines if the recursive DNS health check is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_health_check_retries

`dns_health_check_retries`

The number of DNS health check retries.

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

dns_health_check_timeout

dns_health_check_timeout

The DNS health check timeout interval (in seconds).

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

dns_query_capture_file_time_limit

dns_query_capture_file_time_limit

The time limit (in minutes) for the DNS query capture file.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

dnssec_blacklist_enabled

dnssec_blacklist_enabled

Determines if the blacklist rules for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_dns64_enabled

dnssec_dns64_enabled

Determines if the DNS64 groups for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_enabled

`dnssec_enabled`

Determines if the DNS security extension is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

dnssec_expired_signatures_enabled

`dnssec_expired_signatures_enabled`

Determines when the DNS member accepts expired signatures.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_key_params

`dnssec_key_params`

This structure contains the DNSSEC key parameters for this zone.

Type

A/An DNSSEC Key parameters struct.

Create

The default value is:

```
{ 'enable_ksk_auto_rollover': True,
```

```
'ksk_algorithm': '8',
'ksk_algorithms': [{'algorithm': 'RSASHA256', 'size': 2048}],
'ksk_email_notification_enabled': False,
'ksk_rollover': 31536000,
'ksk_rollover_notification_config': 'REQUIRE_MANUAL_INTERVENTION',
'ksk_size': 2048,
'ksk_snmp_notification_enabled': True,
'next_secure_type': 'NSEC3',
'nsec3_iterations': 0,
'nsec3_salt_max_length': 0,
'nsec3_salt_min_length': 0,
'signature_expiration': 345600,
'zsk_algorithm': '8',
'zsk_algorithms': [{'algorithm': 'RSASHA256', 'size': 1024}],
'zsk_rollover': 2592000,
'zsk_rollover_mechanism': 'PRE_PUBLISH',
'zsk_size': 1024}
```

Search

The field is not available for search.

dnssec_negative_trust_anchors

dnssec_negative_trust_anchors

A list of zones for which the server does not perform DNSSEC validation.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dnssec_nxdomain_enabled

dnssec_nxdomain_enabled

Determines if the NXDOMAIN rules for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_rpz_enabled

dnssec_rpz_enabled

Determines if the RPZ policies for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_trusted_keys

`dnssec_trusted_keys`

The list of trusted keys for the DNSSEC feature.

Type

A/An DNSSEC Trusted Key struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

dnssec_validation_enabled

`dnssec_validation_enabled`

Determines if the DNS security validation is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

dnstap_setting

`dnstap_setting`

The DNSTAP settings.

Type

A/An DNSTAP Setting struct.

Create

The default value is:

```
{'dnstap_receiver_port': 6000}
```

Search

The field is not available for search.

domains_to_capture_dns_queries

`domains_to_capture_dns_queries`

The list of domains for DNS query capture.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dtc_dns_queries_specific_behavior

`dtc_dns_queries_specific_behavior`

Setting to control specific behavior for DTC DNS responses for incoming lbdn matched queries.

Type

String.

Valid values are:

- DNS_RESPONSE_IF_NO_DTC
- DROP_LBDN_MATCHED_QUERY
- DTC_RESPONSE_ANYWAY

Create

The default value is *DNS_RESPONSE_IF_NO_DTC*.

Search

The field is not available for search.

dtc_dnssec_mode

`dtc_dnssec_mode`

DTC DNSSEC operation mode.

Type

String.

Valid values are:

- SIGNED
- UNSIGNED

Create

The default value is *SIGNED*.

Search

The field is not available for search.

dtc_edns_prefer_client_subnet

`dtc_edns_prefer_client_subnet`

Determines whether to prefer the client address from the edns-client-subnet option for DTC or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dtc_scheduled_backup

`dtc_scheduled_backup`

The scheduled backup configuration.

Type

A/An Scheduled backup settings struct.

Create

The default value is:

```
  { 'backup_frequency': 'WEEKLY',
'backup_type': 'LOCAL',
'discovery_data': True,
'download_keys': False,
'enable': False,
'hour_of_day': 3,
'keep_local_copy': False,
'minutes_past_hour': 0,
'nios_data': True,
'operation': 'NONE',
'restore_type': 'FTP',
'splunk_app_data': True,
'status': 'IDLE',
'upload_keys': False,
'use_keys': False,
'weekday': 'SATURDAY'}
```

Search

The field is not available for search.

dtc_topology_ea_list

`dtc_topology_ea_list`

The DTC topology extensible attribute definition list. When configuring a DTC topology, users may configure classification as either “Geographic” or “Extensible

Attributes". Selecting extensible attributes will replace supported Topology database labels (Continent, Country, Subdivision, City) with the names of the selection EA types and provide values extracted from DHCP Network Container, Network and Range objects with those extensible attributes.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

edns_udp_size

`edns_udp_size`

Advertises the EDNS0 buffer size to the upstream server. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

email

`email`

The email address of a Grid DNS object.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

enable_blackhole

`enable_blackhole`

Determines if the blocking of DNS queries is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_blacklist

`enable_blacklist`

Determines if a blacklist is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_capture_dns_queries

`enable_capture_dns_queries`

Determines if the capture of DNS queries is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_capture_dns_responses

`enable_capture_dns_responses`

Determines if the capture of DNS responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_client_subnet_forwarding

enable_client_subnet_forwarding

Determines whether to enable forwarding EDNS client subnet options to upstream servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_client_subnet_recursive

enable_client_subnet_recursive

Determines whether to enable adding EDNS client subnet options in recursive resolution. The client_subnet_domains parameter value must not be empty to enable the enable_client_subnet_recursive parameter.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_delete_associated_ptr

enable_delete_associated_ptr

Determines if the ability to automatically remove associated PTR records while deleting A or AAAA records is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dns64

enable_dns64

Determines if the DNS64 support is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dns_health_check

`enable_dns_health_check`

Determines if the DNS health check is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_auth_queries

`enable_dnstap_auth_queries`

Enable DNSTAP for authoritative query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_auth_responses

`enable_dnstap_auth_responses`

Enable DNSTAP for authoritative response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_client_queries

`enable_dnstap_client_queries`

Enable DNSTAP for client query messages.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_dnstap_client_responses

`enable_dnstap_client_responses`

Enable DNSTAP for client response messages.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_dnstap_forwarder_queries

`enable_dnstap_forwarder_queries`

Enable DNSTAP for forwarder query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_forwarder_responses

`enable_dnstap_forwarder_responses`

Enable DNSTAP for forwarder response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_queries

`enable_dnstap_queries`

Determines whether the query messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_resolver_queries

`enable_dnstap_resolver_queries`

Enable DNSTAP for resolver query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_resolver_responses

`enable_dnstap_resolver_responses`

Enable DNSTAP for resolver response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_responses

enable_dnstap_responses

Determines whether the response messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_setting

enable_dnstap_setting

Indicates whether DNSTAP is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dnstap_violations_tls

enable_dnstap_violations_tls

Determines whether the violations messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_excluded_domain_names

enable_excluded_domain_names

Determines if excluding domain names from captured DNS queries and responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_fixed_rrset_order_fqdns

`enable_fixed_rrset_order_fqdns`

Determines if the fixed RRset order FQDN is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ftc

`enable_ftc`

Determines whether Fault Tolerant Caching (FTC) is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_gss_tsig

`enable_gss_tsig`

Determines whether all appliances in the Grid are enabled to receive GSS-TSIG authenticated updates from DNS clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_host_rrset_order

`enable_host_rrset_order`

Determines if the host RRset order is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_hsm_signing

`enable_hsm_signing`

Determines whether Hardware Security Modules (HSMs) are enabled for key generation and signing. Note, that you must configure the HSM group with at least one enabled HSM.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_notify_source_port

`enable_notify_source_port`

Determines if the notify source port at the Grid Level is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_query_rewrite

enable_query_rewrite

Determines if the DNS query rewrite is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_query_source_port

enable_query_source_port

Determines if the query source port at the Grid Level is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

excluded_domain_names

excluded_domain_names

The list of domains that are excluded from DNS query and response capture.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

expire_after

expire_after

The expiration time of a Grid DNS object. If the secondary DNS server fails to contact the primary server for the specified interval, the secondary server stops giving out answers about the zone because the zone data is too old to be useful.

Type

Unsigned integer.

Create

The default value is *2419200*.

Search

The field is not available for search.

file_transfer_setting

`file_transfer_setting`

The DNS capture file transfer settings.Include the specified parameter to set the attribute value. Omit the parameter to retrieve the attribute value.

Type

A/An File Transfer Setting struct.

Create

The default value is:

```
{'type': 'FTP'}
```

Search

The field is not available for search.

filter_aaaa

`filter_aaaa`

The type of AAAA filtering for this member DNS object.

Type

String.

Valid values are:

- BREAK_DNSSEC
- NO
- YES

Create

The default value is *NO*.

Search

The field is not available for search.

filter_aaaa_list

`filter_aaaa_list`

The list of IPv4 addresses and networks from which queries are received. AAAA filtering is applied to these addresses.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

fixed_rrset_order_fqdns

`fixed_rrset_order_fqdns`

The fixed RRset order FQDN. If this field does not contain an empty value, the appliance will automatically set the enable_fixed_rrset_order_fqdns field to 'true', unless the same request sets the enable field to 'false'.

Type

A/An Fixed RRset order FQDN struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

forward_only

`forward_only`

Determines if member sends queries to forwarders only. When the value is "true", the member sends queries to forwarders only, and not to other internal or Internet root servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

forward_updates

`forward_updates`

Determines if secondary servers is allowed to forward updates to the DNS server or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

forwarders

`forwarders`

The forwarders for the member. A forwarder is essentially a name server to which other name servers first send all of their off-site queries. The forwarder builds up a cache of information, avoiding the need for the other name servers to send queries off-site.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ftc_expired_record_timeout

`ftc_expired_record_timeout`

The timeout interval (in seconds) after which the expired Fault Tolerant Caching (FTC)record is stale and no longer valid.

Type

Unsigned integer.

Create

The default value is *86400*.

Search

The field is not available for search.

ftc_expired_record_ttl

`ftc_expired_record_ttl`

The TTL value (in seconds) of the expired Fault Tolerant Caching (FTC) record in DNS responses.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

gen_eadb_from_hosts

`gen_eadb_from_hosts`

Flag for taking EA values from IPAM Hosts into consideration for the DTC topology EA database.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

gen_eadb_from_network_containers

`gen_eadb_from_network_containers`

Flag for taking EA values from IPAM Network Containers into consideration for the DTC topology EA database.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

gen_eadb_from_networks

`gen_eadb_from_networks`

Flag for taking EA values from IPAM Network into consideration for the DTC topology EA database.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

gen_eadb_from_ranges

gen_eadb_from_ranges

Flag for taking EA values from IPAM Ranges into consideration for the DTC topology EA database.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

gss_tsig_keys

gss_tsig_keys

The list of GSS-TSIG keys for a Grid DNS object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

last_queried_acl

last_queried_acl

Determines last queried ACL for the specified IPv4 or IPv6 addresses and networks in scavenging settings.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

logging_categories

logging_categories

The logging categories.

Type

A/An Grid logging setting information struct.

Create

The default value is:

```
  { 'log_client': True,
'log_config': True,
'log_database': True,
'log_dnssec': True,
'log_dtc_gslb': False,
'log_dtc_health': False,
'log_general': True,
'log_lame_servers': True,
'log_network': True,
'log_notify': True,
'log_queries': False,
'log_query_rewrite': False,
'log_rate_limit': True,
'log_resolver': True,
'log_responses': False,
'log_rpz': False,
'log_security': True,
'log_update': True,
'log_update_security': True,
'log_xfer_in': True,
'log_xfer_out': True}
```

Search

The field is not available for search.

max_cache_ttl

max_cache_ttl

The maximum time (in seconds) for which the server will cache positive answers.

Type

Unsigned integer.

Create

The default value is *604800*.

Search

The field is not available for search.

max_cached_lifetime

max_cached_lifetime

The maximum time (in seconds) a DNS response can be stored in the hardware acceleration cache.

Valid values are unsigned integer between 60 and 86400, inclusive.

Type

Unsigned integer.

Create

The default value is *86400*.

Search

The field is not available for search.

max_ncache_ttl

`max_ncache_ttl`

The maximum time (in seconds) for which the server will cache negative (NXDOMAIN) responses.

The maximum allowed value is 604800.

Type

Unsigned integer.

Create

The default value is *10800*.

Search

The field is not available for search.

max_udp_size

`max_udp_size`

The value is used by authoritative DNS servers to never send DNS responses larger than the configured value. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

member_secondary_notify

`member_secondary_notify`

Determines if Grid members that are authoritative secondary servers are allowed to send notification messages to external name servers, if the Grid member that is primary for a zone fails or loses connectivity.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

negative_ttl

`negative_ttl`

The negative TTL value of a Grid DNS object. This interval tells the secondary how long data can be cached for “Does Not Respond” responses.

Type

Unsigned integer.

Create

The default value is *900*.

Search

The field is not available for search.

notify_delay

`notify_delay`

Specifies with how many seconds of delay the notify messages are sent to secondaries.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

notify_source_port

`notify_source_port`

The source port for notify messages. When requesting zone transfers from the primary server, some secondary DNS servers use the source port number (the primary server used to send the notify message) as the destination port number in the zone transfer request.

Valid values are between 1 and 63999. The default is picked by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

nsgroup_default

nsgroup_default

The default nameserver group.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

nsgroups

nsgroups

A name server group is a collection of one primary DNS server and one or more secondary DNS servers.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

nxdomain_log_query

nxdomain_log_query

Determines if NXDOMAIN redirection queries are logged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

nxdomain_redirect

nxdomain_redirect

Determines if NXDOMAIN redirection is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

nxdomain_redirect_addresses

`nxdomain_redirect_addresses`

The list of IPv4 NXDOMAIN redirection addresses.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

nxdomain_redirect_addresses_v6

`nxdomain_redirect_addresses_v6`

The list of IPv6 NXDOMAIN redirection addresses.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

nxdomain_redirect_ttl

`nxdomain_redirect_ttl`

The TTL value (in seconds) of synthetic DNS responses that result from NXDOMAIN redirection.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

nxdomain_rulesets

nxdomain_rulesets

The Ruleset object names assigned at the Grid level for NXDOMAIN redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

preserve_host_rrset_order_on_secondaries

preserve_host_rrset_order_on_secondaries

Determines if the host RRset order on secondaries is preserved or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

protocol_record_name_policies

protocol_record_name_policies

The list of record name policies.

Type

A/An recordnamepolicy object array.

This field supports nested return fields as described here.

Create

The default value is *[{'name': 'Strict Hostname Checking', 'regex': '^[a-zA-Z0-9]$|^[a-zA-Z0-9][-a-zA-Z0-9.]*[a-zA-Z0-9]$', 'is_default': False}, {'name': 'Allow Underscore', 'regex': '^[-a-zA-Z0-9_.]+$', 'is_default': True}, {'name': 'Allow Any', 'regex': '.+', 'is_default': False}]*.

Search

The field is not available for search.

query_rewrite_domain_names

query_rewrite_domain_names

The list of domain names that trigger DNS query rewrite.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

query_rewrite_prefix

query_rewrite_prefix

The domain name prefix for DNS query rewrite.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

query_source_port

query_source_port

The source port for queries. Specifying a source port number for recursive queries ensures that a firewall will allow the response.

Valid values are between 1 and 63999. The default is picked by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

recursive_query_list

recursive_query_list

The list of IPv4 or IPv6 addresses, networks or hosts authenticated by Transaction

signature (TSIG) key from which recursive queries are allowed or denied.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

refresh_timer

`refresh_timer`

The refresh time. This interval tells the secondary how often to send a message to the primary for a zone to check that its data is current, and retrieve fresh data if it is not.

Type

Unsigned integer.

Create

The default value is *10800*.

Search

The field is not available for search.

resolver_query_timeout

`resolver_query_timeout`

The recursive query timeout for the member.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

response_rate_limiting

`response_rate_limiting`

The response rate limiting settings for the member.

Type

A/An DNS Response Rate Limiting struct.

Create

The default value is:

```
  { 'enable_rrl': False,
'log_only': False,
'responses_per_second': 100,
'slip': 2,
'window': 15}
```

Search

The field is not available for search.

restart_setting

`restart_setting`

The restart setting.

Type

A/An Restart Setting struct.

Create

The default value is:

```
{'delay': 10, 'restart_offline': True, 'timeout': 60}
```

Search

The field is not available for search.

retry_timer

`retry_timer`

The retry time. This interval tells the secondary how long to wait before attempting to recontact the primary after a connection failure occurs between the two servers.

Type

Unsigned integer.

Create

The default value is *3600*.

Search

The field is not available for search.

root_name_server_type

`root_name_server_type`

Determines the type of root name servers.

Type

String.

Valid values are:

- CUSTOM
- INTERNET

Create

The default value is *INTERNET*.

Search

The field is not available for search.

rpz_disable_nsdname_nsip

`rpz_disable_nsdname_nsip`

Determines if NSDNAME and NSIP resource records from RPZ feeds are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

rpz_drop_ip_rule_enabled

`rpz_drop_ip_rule_enabled`

Enables the appliance to ignore RPZ-IP triggers with prefix lengths less than the specified minimum prefix length.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

rpz_drop_ip_rule_min_prefix_length_ipv4

`rpz_drop_ip_rule_min_prefix_length_ipv4`

The minimum prefix length for IPv4 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv4 prefix length.

Type

Unsigned integer.

Create

The default value is *29*.

Search

The field is not available for search.

rpz_drop_ip_rule_min_prefix_length_ipv6

`rpz_drop_ip_rule_min_prefix_length_ipv6`

The minimum prefix length for IPv6 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv6 prefix length.

Type

Unsigned integer.

Create

The default value is *112*.

Search

The field is not available for search.

rpz_qname_wait_recurse

`rpz_qname_wait_recurse`

Determines if recursive RPZ lookups are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

scavenging_settings

`scavenging_settings`

The Grid level scavenging settings.

Type

A/An DNS scavenging settings struct.

Create

The default value is:

```
  { 'ea_expression_list': [],
'enable_auto_reclamation': False,
'enable_recurrent_scavenging': False,
'enable_rr_last_queried': False,
'enable_scavenging': False,
'enable_zone_last_queried': False,
'expression_list': [],
'reclaim_associated_records': False}
```

Search

The field is not available for search.

serial_query_rate

`serial_query_rate`

The number of maximum concurrent SOA queries per second.

Valid values are unsigned integer between 20 and 1000, inclusive.

Type

Unsigned integer.

Create

The default value is *20*.

Search

The field is not available for search.

server_id_directive

`server_id_directive`

The value of the server-id directive for BIND DNS.

Type

String.

Valid values are:

- HOSTNAME
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

sortlist

`sortlist`

A sort list determines the order of addresses in responses made to DNS queries.

Type

A/An DNS Sortlist struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

store_locally

`store_locally`

Determines if the storage of query capture reports on the appliance is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

syslog_facility

`syslog_facility`

The syslog facility. This is the location on the syslog server to which you want to sort the DNS logging messages.

Type

String.

Valid values are:

- DAEMON
- LOCAL0
- LOCAL1
- LOCAL2
- LOCAL3
- LOCAL4
- LOCAL5
- LOCAL6
- LOCAL7

Create

The default value is *DAEMON*.

Search

The field is not available for search.

transfer_excluded_servers

`transfer_excluded_servers`

The list of excluded DNS servers during zone transfers.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

transfer_format

`transfer_format`

The BIND format for a zone transfer. This provides tracking capabilities for single or multiple transfers and their associated servers.

Type

String.

Valid values are:

- MANY_ANSWERS
- ONE_ANSWER

Create

The default value is *MANY_ANSWERS*.

Search

The field is not available for search.

transfers_in

`transfers_in`

The number of maximum concurrent transfers for the Grid.

Valid values are unsigned integer between 10 and 10000, inclusive.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

transfers_out

`transfers_out`

The number of maximum outbound concurrent zone transfers.

Valid values are unsigned integer between 10 and 10000, inclusive.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

transfers_per_ns

`transfers_per_ns`

The number of maximum concurrent transfers per member.

Valid values are unsigned integer between 2 and 10000, inclusive.

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

zone_deletion_double_confirm

`zone_deletion_double_confirm`

Determines if the double confirmation during zone deletion is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Function Calls

run_scavenging

This function performs the scavenging of the DNS Records.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “ANALYZE”, “RECLAIM”, “ANALYZE_RECLAIM”, “RESET”). This parameter is mandatory. The scavenging action to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
add_client_ip_mac_options	Bool	N	N	N	N/A
allow_bulkhost_ddns	String	N	N	N	N/A
allow_gss_tsig_zone_updates	Bool	N	N	N	N/A
allow_query	[struct]	N	N	N	N/A
allow_recursive_query	Bool	N	N	N	N/A
allow_transfer	[struct]	N	N	N	N/A
allow_update	[struct]	N	N	N	N/A
anonymize_response_logging	Bool	N	N	N	N/A
attack_mitigation	struct	N	N	N	N/A
auto_blackhole	struct	N	N	N	N/A
bind_check_names_policy	String	N	N	N	N/A
bind_hostname_directive	String	N	N	N	N/A
blackhole_list	[struct]	N	N	N	N/A
blacklist_action	String	N	N	N	N/A
blacklist_log_query	Bool	N	N	N	N/A
blacklist_redirect_addresses	[String]	N	N	N	N/A
blacklist_redirect_ttl	Unsigned int	N	N	N	N/A
blacklist_rulesets	[String]	N	N	N	N/A
bulk_host_name_templates	[obj]	N	N	N	N/A
capture_dns_queries_on_all_domains	Bool	N	N	N	N/A
check_names_for_ddns_and_zone_transfer	Bool	N	N	N	N/A
client_subnet_domains	[struct]	N	N	N	N/A
client_subnet_ipv4_prefix_length	Unsigned int	N	N	N	N/A
client_subnet_ipv6_prefix_length	Unsigned int	N	N	N	N/A
copy_client_ip_mac_options	Bool	N	N	N	N/A

copy_xfer_to_notify	Bool	N	N	N	N/A
custom_root_name_servers	[struct]	N	N	N	N/A
ddns_force_creation_timestamp_update	Bool	N	N	N	N/A
ddns_principal_group	String	N	N	N	N/A
ddns_principal_tracking	Bool	N	N	N	N/A
ddns_restrict_patterns	Bool	N	N	N	N/A
ddns_restrict_patterns_list	[String]	N	N	N	N/A
ddns_restrict_protected	Bool	N	N	N	N/A
ddns_restrict_secure	Bool	N	N	N	N/A
ddns_restrict_static	Bool	N	N	N	N/A
default_bulk_host_name_template	String	N	N	N	N/A
default_ttl	Unsigned int	N	N	N	N/A
disable_edns	Bool	N	N	N	N/A
dns64_groups	[String]	N	N	N	N/A
dns_cache_acceleration_ttl	Unsigned int	N	N	N	N/A
dns_health_check_anycast_control	Bool	N	N	N	N/A
dns_health_check_domain_list	[String]	N	N	N	N/A
dns_health_check_interval	Unsigned int	N	N	N	N/A
dns_health_check_recursion_flag	Bool	N	N	N	N/A
dns_health_check_retries	Unsigned int	N	N	N	N/A
dns_health_check_timeout	Unsigned int	N	N	N	N/A
dns_query_capture_file_time_limit	Unsigned int	N	N	N	N/A
dnssec_blacklist_enabled	Bool	N	N	N	N/A
dnssec_dns64_enabled	Bool	N	N	N	N/A
dnssec_enabled	Bool	N	N	N	N/A
dnssec_expired_signatures_enabled	Bool	N	N	N	N/A
dnssec_key_params	struct	N	N	N	N/A
dnssec_negative_trust_anchors	[String]	N	N	N	N/A
dnssec_nxdomain_enabled	Bool	N	N	N	N/A
dnssec_rpz_enabled	Bool	N	N	N	N/A
dnssec_trusted_keys	[struct]	N	N	N	N/A
dnssec_validation_enabled	Bool	N	N	N	N/A
dnstap_setting	struct	N	N	N	N/A
domains_to_capture_dns_queries	[String]	N	N	N	N/A
dtc_dns_queries_specific_behavior	String	N	N	N	N/A
dtc_dnssec_mode	String	N	N	N	N/A
dtc_edns_prefer_client_subnet	Bool	N	N	N	N/A
dtc_scheduled_backup	struct	N	N	N	N/A
dtc_topology_ea_list	[String]	N	N	N	N/A
edns_udp_size	Unsigned int	N	N	N	N/A
email	String	N	N	N	N/A
enable_blackhole	Bool	N	N	N	N/A
enable_blacklist	Bool	N	N	N	N/A
enable_capture_dns_queries	Bool	N	N	N	N/A
enable_capture_dns_responses	Bool	N	N	N	N/A
enable_client_subnet_forwarding	Bool	N	N	N	N/A
enable_client_subnet_recursive	Bool	N	N	N	N/A

enable_delete_associated_ptr	Bool	N	N	N	N/A
enable_dns64	Bool	N	N	N	N/A
enable_dns_health_check	Bool	N	N	N	N/A
enable_dnstap_auth_queries	Bool	N	N	N	N/A
enable_dnstap_auth_responses	Bool	N	N	N	N/A
enable_dnstap_client_queries	Bool	N	N	N	N/A
enable_dnstap_client_responses	Bool	N	N	N	N/A
enable_dnstap_forwarder_queries	Bool	N	N	N	N/A
enable_dnstap_forwarder_responses	Bool	N	N	N	N/A
enable_dnstap_queries	Bool	N	N	N	N/A
enable_dnstap_resolver_queries	Bool	N	N	N	N/A
enable_dnstap_resolver_responses	Bool	N	N	N	N/A
enable_dnstap_responses	Bool	N	N	N	N/A
enable_dnstap_setting	Bool	N	N	N	N/A
enable_dnstap_violations_tls	Bool	N	N	N	N/A
enable_excluded_domain_names	Bool	N	N	N	N/A
enable_fixed_rrset_order_fqdns	Bool	N	N	N	N/A
enable_ftc	Bool	N	N	N	N/A
enable_gss_tsig	Bool	N	N	N	N/A
enable_host_rrset_order	Bool	N	N	N	N/A
enable_hsm_signing	Bool	N	N	N	N/A
enable_notify_source_port	Bool	N	N	N	N/A
enable_query_rewrite	Bool	N	N	N	N/A
enable_query_source_port	Bool	N	N	N	N/A
excluded_domain_names	[String]	N	N	N	N/A
expire_after	Unsigned int	N	N	N	N/A
file_transfer_setting	struct	N	N	N	N/A
filter_aaaa	String	N	N	N	N/A
filter_aaaa_list	[struct]	N	N	N	N/A
fixed_rrset_order_fqdns	[struct]	N	N	N	N/A
forward_only	Bool	N	N	N	N/A
forward_updates	Bool	N	N	N	N/A
forwarders	[String]	N	N	N	N/A
ftc_expired_record_timeout	Unsigned int	N	N	N	N/A
ftc_expired_record_ttl	Unsigned int	N	N	N	N/A
gen_eadb_from_hosts	Bool	N	N	N	N/A
gen_eadb_from_network_containers	Bool	N	N	N	N/A
gen_eadb_from_networks	Bool	N	N	N	N/A
gen_eadb_from_ranges	Bool	N	N	N	N/A
gss_tsig_keys	[obj]	N	N	N	N/A
last_queried_acl	[struct]	N	N	N	N/A
logging_categories	struct	N	N	N	N/A
max_cache_ttl	Unsigned int	N	N	N	N/A
max_cached_lifetime	Unsigned int	N	N	N	N/A
max_ncache_ttl	Unsigned int	N	N	N	N/A
max_udp_size	Unsigned int	N	N	N	N/A
member_secondary_notify	Bool	N	N	N	N/A

negative_ttl	Unsigned int	N	N	N	N/A
notify_delay	Unsigned int	N	N	N	N/A
notify_source_port	Unsigned int	N	N	N	N/A
nsgroup_default	String	N	N	N	N/A
nsgroups	[String]	N	N	N	N/A
nxdomain_log_query	Bool	N	N	N	N/A
nxdomain_redirect	Bool	N	N	N	N/A
nxdomain_redirect_addresses	[String]	N	N	N	N/A
nxdomain_redirect_addresses_v6	[String]	N	N	N	N/A
nxdomain_redirect_ttl	Unsigned int	N	N	N	N/A
nxdomain_rulesets	[String]	N	N	N	N/A
preserve_host_rrset_order_on_secondaries	Bool	N	N	N	N/A
protocol_record_name_policies	[obj]	N	N	N	N/A
query_rewrite_domain_names	[String]	N	N	N	N/A
query_rewrite_prefix	String	N	N	N	N/A
query_source_port	Unsigned int	N	N	N	N/A
recursive_query_list	[struct]	N	N	N	N/A
refresh_timer	Unsigned int	N	N	N	N/A
resolver_query_timeout	Unsigned int	N	N	N	N/A
response_rate_limiting	struct	N	N	N	N/A
restart_setting	struct	N	N	N	N/A
retry_timer	Unsigned int	N	N	N	N/A
root_name_server_type	String	N	N	N	N/A
rpz_disable_nsdname_nsip	Bool	N	N	N	N/A
rpz_drop_ip_rule_enabled	Bool	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv4	Unsigned int	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv6	Unsigned int	N	N	N	N/A
rpz_qname_wait_recurse	Bool	N	N	N	N/A
scavenging_settings	struct	N	N	N	N/A
serial_query_rate	Unsigned int	N	N	N	N/A
server_id_directive	String	N	N	N	N/A
sortlist	[struct]	N	N	N	N/A
store_locally	Bool	N	N	N	N/A
syslog_facility	String	N	N	N	N/A
transfer_excluded_servers	[String]	N	N	N	N/A
transfer_format	String	N	N	N	N/A
transfers_in	Unsigned int	N	N	N	N/A
transfers_out	Unsigned int	N	N	N	N/A
transfers_per_ns	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
zone_deletion_double_confirm	Bool	N	N	N	N/A

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grid:filedistribution : Grid file distribution object.
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- Fields
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  - backup_storage
  - current_usage
  - enable_anonymous_ftp
  - global_status
  - name
  - storage_limit
  - uuid
- Fields List

Previous topic

grid:dns : Grid DNS properties object.

Next topic

grid:license_pool : Grid License Pool object.

grid:filedistribution : Grid file distribution object.

The Grid file distribution object represents the file distribution storage limit configuration and global file distribution statistics.

Object Reference

References to grid:filedistribution are object references.

The *name* part of the Grid file distribution object reference has the following components:

- The name of the Grid

Example (using _ref or UUID):

```
# Using _ref grid:filedistribution/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:Infoblox

# Using UUID grid:filedistribution/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **allow_uploads, current_usage, global_status, name, storage_limit, uuid**.

allow_uploads

`allow_uploads`

Determines whether the uploads to Grid members are allowed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The allow_uploads is part of the base object.

backup_storage

backup_storage

Determines whether to include distributed files in the backup.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

current_usage

current_usage

The value is the percentage of the allocated TFTP storage space that is used, expressed in tenth of a percent. Valid values are from 0 to 1000.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The current_usage is part of the base object.

The current_usage cannot be updated.

current_usage cannot be written.

enable_anonymous_ftp

enable_anonymous_ftp

Determines whether the FTP anonymous login is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

global_status

`global_status`

The Grid file distribution global status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The global_status is part of the base object.

The global_status cannot be updated.

global_status cannot be written.

name

`name`

The Grid name.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

storage_limit

`storage_limit`

Maximum storage in megabytes allowed on the Grid. The maximum storage space allowed for all file distribution services on a Grid is equal to the storage space allowed to the Grid member with the smallest amount of space allowed.

Type

Unsigned integer.

Create

The default value is *500*.

Search

The field is not available for search.

Notes

The storage_limit is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allow_uploads	Bool	N	N	Y	N/A
backup_storage	Bool	N	N	N	N/A
current_usage	Unsigned int	N	Y	Y	N/A

enable_anonymous_ftp	Bool	N	N	N	N/A
global_status	String	N	Y	Y	N/A
name	String	N	Y	Y	=
storage_limit	Unsigned int	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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grid:license_pool : Grid License Pool object.
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- Fields List

Previous topic

grid:filedistribution : Grid file distribution object.

Next topic

grid:license_pool_container : Grid License Pool Container object.

grid:license_pool : Grid License Pool object.

This object represents the Grid license pool.

Object Reference

References to grid:license_pool are object references. The *name* part of a Grid License Pool object reference has the following components:

- Type of License
- Model of Appliance
- License pool limit

Example:

```
# Using _ref
grid:license_pool/b25lLmxpY2Vuc2VfcG9vbCRkaGNwLjEw:DHCP/IB-VM-1410/100

# Using UUID
grid:license_pool/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **type, uuid**.

assigned

`assigned`

The number of dynamic licenses allocated to vNIOS appliances.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The assigned cannot be updated.

assigned cannot be written.

expiration_status

`expiration_status`

The license expiration status.

- DELETED - The temporary license has been deleted.
- EXPIRED - License/Pool has reached the expiry date.
- EXPIRING_SOON - License/Pool expires in 31-90 days.
- EXPIRING_VERY_SOON - License/Pool expires in 30 days or earlier.
- NOT_EXPIRED - License/Pool has not expired.
- PERMANENT - License/Pool does not expire.

Type

String.

Valid values are:

- DELETED
- EXPIRED
- EXPIRING_SOON
- EXPIRING_VERY_SOON
- NOT_EXPIRED
- PERMANENT

Search

The field is not available for search.

Notes

The expiration_status cannot be updated.

expiration_status cannot be written.

expiry_date

`expiry_date`

The expiration timestamp of the license.

Type

Timestamp.

Search

The field is not available for search.

Notes

The expiry_date cannot be updated.

expiry_date cannot be written.

installed

`installed`

The total number of dynamic licenses allowed for this license pool.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The installed cannot be updated.

installed cannot be written.

key

`key`

The license string for the license pool.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The key cannot be updated.

key cannot be written.

limit

`limit`

The limitation of dynamic license that can be allocated from the license pool.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The limit cannot be updated.

limit cannot be written.

limit_context

`limit_context`

The license limit context.

Type

String.

Valid values are:

- LEASES
- MODEL
- NONE
- TIER

Search

The field is not available for search.

Notes

The limit_context cannot be updated.

limit_context cannot be written.

model

`model`

The supported vNIOS virtual appliance model.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The model cannot be updated.

model cannot be written.

subpools

`subpools`

The license pool subpools.

Type

A/An License sub-pool settings struct array.

Search

The field is not available for search.

Notes

The subpools cannot be updated.

subpools cannot be written.

temp_assigned

`temp_assigned`

The total number of temporary dynamic licenses allocated to vNIOS appliances.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The temp_assigned cannot be updated.

temp_assigned cannot be written.

type

`type`

The license type.

Type

String.

Valid values are:

- ANYCAST
- CLOUD
- CLOUD_API
- DCA
- DDI_TRIAL
- DHCP
- DISCOVERY
- DNS
- DNSQRW
- DNS_CACHE_ACCEL
- DTC
- FIREEYE
- FLEX_GRID_ACTIVATION
- FLEX_GRID_ACTIVATION_MS
- FREQ_CONTROL
- GRID
- GRID_MAINTENANCE
- IPAM
- IPAM_FREEWARE
- LDAP
- LOAD_BALANCER
- MGM
- MSMGMT
- NIOS
- NIOS_MAINTENANCE
- NTP
- OEM
- QRD
- REPORTING
- REPORTING_SUB
- RPZ
- SECURITY_ECOSYSTEM
- SW_TP
- TAE
- TFTP
- THREAT_INSIGHT
- TP
- TP_SUB
- VNIOS

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
assigned	Unsigned int	N	Y	N	N/A
expiration_status	String	N	Y	N	N/A
expiry_date	Timestamp	N	Y	N	N/A
installed	Unsigned int	N	Y	N	N/A
key	String	N	Y	N	=
limit	String	N	Y	N	=
limit_context	String	N	Y	N	N/A
model	String	N	Y	N	=
subpools	[struct]	N	Y	N	N/A
temp_assigned	Unsigned int	N	Y	N	N/A
type	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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grid:license_pool_container : Grid License Pool Container object.
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  - lpc_uid
  - uuid
- Function Calls
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- Fields List

Previous topic

grid:license_pool : Grid License Pool object.

Next topic

grid:maxminddbinfo : Topology DB Info object.

grid:license_pool_container : Grid License Pool Container object.

This object represents the Grid license pool container.

Object Reference

References to grid:license_pool_container are object references. The *name* part of a Grid License Pool Container object reference has the following components:

- The “LicensePoolContainer” string

Example:

```
# Using _ref
grid:license_pool_container/b25lLmxpY2Vuc2VfcG9vbF:LicensePoolContainer

# Using UUID
grid:license_pool_container/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

last_entitlement_update

`last_entitlement_update`

The timestamp when the last pool licenses were updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_entitlement_update cannot be updated.

last_entitlement_update cannot be written.

lpc_uid

`lpc_uid`

The world-wide unique ID for the license pool container.

Type

String.

Search

The field is not available for search.

Notes

The lpc_uid cannot be updated.

lpc_uid cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

allocate_licenses

Use this function to allocate dynamic licenses to a node.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

hwid (String.). This parameter is mandatory. The hardware ID of a physical node on which dynamic licenses will be installed.

license_pools (A/An grid:license_pool object array.). This parameter is mandatory. The license pools from which you allocate dynamic licenses.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
last_entitlement_update	Timestamp	N	Y	N	N/A
lpc_uid	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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grid:maxminddbinfo : Topology DB Info object.
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  - build_time
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  - deployment_time
  - member
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  - uuid
- Fields List

Previous topic

grid:license_pool_container : Grid License Pool Container object.

Next topic

grid:member:cloudapi : Member Cloud API object.

grid:maxminddbinfo : Topology DB Info object.

The information about Topology DB.

Object Reference

References to grid:maxminddbinfo are object references. The *name* part of a Topology DB Info object reference has the following components:

- The 'maxminddbinfo' string
- The topology type

Example:

```
# Using _ref
grid:maxminddbinfo/ZGldHdvcmtfdmlldyQxMTk:maxminddbinfo/GEOIP

# Using UUID
grid:maxminddbinfo/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **binary_major_version, binary_minor_version, build_time, database_type, deployment_time, member, topology_type, uuid**.

binary_major_version

`binary_major_version`

The major version of DB binary format.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The binary_major_version is part of the base object.

The binary_major_version cannot be updated.

binary_major_version cannot be written.

binary_minor_version

`binary_minor_version`

The minor version of DB binary format.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The binary_minor_version is part of the base object.

The binary_minor_version cannot be updated.

binary_minor_version cannot be written.

build_time

`build_time`

The time at which the DB was built.

Type

Timestamp.

Search

The field is not available for search.

Notes

The build_time is part of the base object.

The build_time cannot be updated.

build_time cannot be written.

database_type

database_type

The structure of data records (“GeoLite2-Country”, GeoLite2-City”, etc.).

Type

String.

Search

The field is not available for search.

Notes

The database_type is part of the base object.

The database_type cannot be updated.

database_type cannot be written.

deployment_time

deployment_time

The time at which the current Topology DB was deployed.

Type

Timestamp.

Search

The field is not available for search.

Notes

The deployment_time is part of the base object.

The deployment_time cannot be updated.

deployment_time cannot be written.

member

member

The member for testing the connection.

Type

String.

Search

The field is not available for search.

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

topology_type

`topology_type`

The topology type.

Type

String.

Valid values are:

- EA
- GEOIP

Search

The field is available for search via

- '=' (exact equality)

Notes

The topology_type is part of the base object.

The topology_type cannot be updated.

topology_type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
binary_major_version	Unsigned int	N	Y	Y	N/A
binary_minor_version	Unsigned int	N	Y	Y	N/A
build_time	Timestamp	N	Y	Y	N/A
database_type	String	N	Y	Y	N/A
deployment_time	Timestamp	N	Y	Y	N/A
member	String	N	Y	Y	N/A
topology_type	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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grid:member:cloudapi : Member Cloud API object.
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  - allowed_api_admins
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Previous topic

grid:maxminddbinfo : Topology DB Info object.

Next topic

grid:servicerestart:group : Service Restart Group object.

grid:member:cloudapi : Member Cloud API object.

Class that represents member Cloud configuration settings.

Object Reference

References to grid:member:cloudapi are object references. The *name* part of a Member Cloud API object reference has the following components:

- Name of Member Cloud API object

Example (using _ref or UUID):

```
# Using _ref
grid:member:cloudapi/ZGldHdvcmtfdmlldyQxMTk:member1

# Using UUID
grid:member:cloudapi/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **allow_api_admins, allowed_api_admins, enable_service, member, status, uuid**.

allow_api_admins

`allow_api_admins`

Defines which administrators are allowed to perform Cloud API request on the Grid Member: no administrators (NONE), any administrators (ALL) or administrators in the ACL list (LIST). Default is ALL.

Type

String.

Valid values are:

- ALL
- LIST
- NONE

Create

The default value is *ALL*.

Search

The field is not available for search.

Notes

The allow_api_admins is part of the base object.

allowed_api_admins

`allowed_api_admins`

List of administrators allowed to perform Cloud Platform API requests on that member.

Type

A/An Cloud user struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

The allowed_api_admins is part of the base object.

enable_service

`enable_service`

Controls whether the Cloud API service runs on the member or not.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The enable_service is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Search

For how to search extensible attributes, see the following information.

Notes

The extattrs cannot be updated.

extattrs cannot be written.

gateway_config

`gateway_config`

Structure containing all the information related to Gateway configuration for the member

Type

A/An Gateway config struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

member

`member`

The related Grid Member.

Type

A/An Grid member serving DHCP struct.

Search

The field is not available for search.

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

status

`status`

Status of Cloud API service on the member.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

comment

`comment`

Comment for the Member Cloud API object; maximum 256 characters.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

comment is a search-only field.

ipv4addr

`ipv4addr`

The IPv4 Address of the Grid Member.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

ipv4addr is a search-only field.

ipv6addr

`ipv6addr`

The IPv6 Address of the Grid Member.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

ipv6addr is a search-only field.

name

`name`

The host name of related Member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

name is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
allow_api_admins	String	N	N	Y	N/A
allowed_api_admins	[struct]	N	N	Y	N/A
enable_service	Bool	N	N	Y	N/A
extattrs	Extattr	N	Y	N	ext
gateway_config	struct	N	N	N	N/A
member	struct	N	Y	Y	N/A
status	String	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
comment	String	: = ~
ipv4addr	String	=
ipv6addr	String	=
name	String	= ~

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grid:servicerestart:group : Service Restart Group object.
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- Fields List

Previous topic

grid:member:cloudapi : Member Cloud API object.

Next topic

grid:servicerestart:group:order : Restart Group Order object.

grid:servicerestart:group : Service Restart Group object.

The Grid Service Restart Group object provides the following information about the restart: applicable services, members, restart order, and periodicity.

Object Reference

References to grid:servicerestart:group are object references.

The *name* part of the Service Restart Group object reference has the following components:

- Name of the Service Restart Group

Example (using _ref or UUID):

```
# Using _ref
grid:servicerestart:group/ZG5zLmJpbmRfY25h:restartgroup1

# Using UUID
grid:servicerestart:group/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, service, uuid**.

The following fields are required to create this object:

Field	Notes
name	
service	

comment

comment

Comment for the Restart Group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_default

is_default

Determines if this Restart Group is the default group.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_default cannot be updated.

is_default cannot be written.

last_updated_time

`last_updated_time`

The timestamp when the status of the latest request has changed.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_updated_time cannot be updated.

last_updated_time cannot be written.

members

`members`

The list of members belonging to the group.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

mode

`mode`

The default restart method for this Restart Group.

Type

String.

Valid values are:

- SEQUENTIAL
- SIMULTANEOUS

Create

The default value is *SIMULTANEOUS*.

Search

The field is not available for search.

name

`name`

The name of this Restart Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

position

`position`

The order to restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The position cannot be updated.

position cannot be written.

recurring_schedule

`recurring_schedule`

The recurring schedule for restart of a group.

Type

A/An Restart Group Schedule struct.

Create

The default value is *See the Restart Group Schedule Setting struct for default values*.

Search

The field is not available for search.

requests

`requests`

The list of requests associated with a restart group.

Type

A/An grid:servicerestart:request object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The requests cannot be updated.

requests cannot be written.

service

`service`

The applicable service for this Restart Group.

Type

String.

Valid values are:

- DHCP
- DNS

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The service is part of the base object.

status

`status`

The restart status for a restart group.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
is_default	Bool	N	Y	N	=
last_updated_time	Timestamp	N	Y	N	N/A
members	[String]	N	N	N	N/A
mode	String	N	N	N	N/A
name	String	Y	N	Y	: = ~
position	Unsigned int	N	Y	N	N/A
recurring_schedule	struct	N	N	N	N/A
requests	[obj]	N	Y	N	N/A
service	String	Y	N	Y	=
status	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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grid:servicerestart:group:order : Restart Group Order object.
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- Restrictions
- Fields
  - groups
- Fields List

Previous topic

grid:servicerestart:group : Service Restart Group object.

Next topic

grid:servicerestart:request : Restart Request object.

grid:servicerestart:group:order : Restart Group Order object.

The Grid Service Restart Group Order Setting is used to set the restart order for particular services and members.

Object Reference

References to grid:servicerestart:group:order are object references.

The *name* part of the Service Restart Group Order Setting object reference has the following components:

- The 'order' string

Example:
grid:servicerestart:group:order/ZG5zLmJpbmRfY25h:order

Restrictions

The object does not support the following operations:

- Delete
- Read (retrieve)
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The following fields are required to create this object:

Field	Notes
groups	

groups

groups

The ordered list of the Service Restart Group.

Type

String array.

Create

The field is required on creation.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
groups	[String]	Y	N	N	N/A

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- Fields List

Previous topic

grid:servicerestart:group:order : Restart Group Order object.

Next topic

grid:servicerestart:request:changedobject : Grid service restart request changed object.

grid:servicerestart:request : Restart Request object.

The Restart Request object provides information and statistics about the service restart routine for the Service Restart Group.

Object Reference

References to grid:servicerestart:request are object references.

The *name* part of the name server request object reference has the following components:

- Name of the member to restart

Example (using _ref or UUID):

```
# Using _ref
grid:servicerestart:request/ZG5zLmJpbmRfY25h:infoblox.com

# Using UUID
grid:servicerestart:request/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **error, group, result, state, uuid**.

error

`error`

The error message if restart has failed.

Type

String.

Search

The field is not available for search.

Notes

The error is part of the base object.

The error cannot be updated.

error cannot be written.

forced

`forced`

Indicates if this is a force restart.

Type

Bool.

Search

The field is not available for search.

Notes

The forced cannot be updated.

forced cannot be written.

group

`group`

The name of the Restart Group associated with the request.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The group is part of the base object.

The group cannot be updated.

group cannot be written.

last_updated_time

`last_updated_time`

The timestamp when the status of the request has changed.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_updated_time cannot be updated.

last_updated_time cannot be written.

member

`member`

The member to restart.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member cannot be updated.

member cannot be written.

needed

`needed`

Indicates if restart is needed.

Type

String.

Valid values are:

- CHECKING
- FAILURE
- NO
- UNKNOWN
- YES

Search

The field is not available for search.

Notes

The needed cannot be updated.

needed cannot be written.

order

`order`

The order to restart.

Type

Integer.

Search

The field is not available for search.

Notes

The order cannot be updated.

order cannot be written.

result

`result`

The result of the restart operation.

Type

String.

Valid values are:

- FAILURE
- NORESTART
- SUCCESS
- TIMEOUT

Search

The field is not available for search.

Notes

The result is part of the base object.

The result cannot be updated.

result cannot be written.

service

`service`

The service to restart.

Type

String.

Valid values are:

- DHCPV4
- DHCPV6
- DNS

Search

The field is not available for search.

Notes

The service cannot be updated.

service cannot be written.

state

`state`

The state of the request.

Type

String.

Valid values are:

- FINISHED
- NEW
- PROCESSING
- QUEUED

Search

The field is not available for search.

Notes

The state is part of the base object.

The state cannot be updated.

state cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
error	String	N	Y	Y	N/A
forced	Bool	N	Y	N	N/A
group	String	N	Y	Y	=
last_updated_time	Timestamp	N	Y	N	N/A
member	String	N	Y	N	=
needed	String	N	Y	N	N/A
order	Integer	N	Y	N	N/A
result	String	N	Y	Y	N/A
service	String	N	Y	N	N/A
state	String	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~

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grid:servicerestart:request:changedobject : Grid service restart request changed object.
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- Fields List
- Search-only Fields List

Previous topic

grid:servicerestart:request : Restart Request object.

Next topic

grid:servicerestart:status : Restart Status object.

grid:servicerestart:request:changedobject : Grid service restart request changed object.

The Grid service restart request changed object provides information about changes that are waiting for the restart.

Object Reference

References to grid:servicerestart:request:changedobject are object references. The *name* part of a Grid service restart request changed object reference has the following components:

- The 'changedobject' string

Example (using _ref or UUID):

```
# Using _ref
grid:servicerestart:request:changedobject/ZGldHdsvcmxMTk:changedobject

# Using UUID
grid:servicerestart:request:changedobject/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **action, changed_properties, changed_time, object_name, object_type, user_name, uuid**.

action

`action`

The operation on the changed object.

Type

String.

Valid values are:

- CALLED
- CREATED
- DELETED
- LOGIN_ALLOWED
- LOGIN_DENIED
- LOGOUT
- MESSAGE
- MODIFIED

Search

The field is not available for search.

Notes

The action is part of the base object.

The action cannot be updated.

action cannot be written.

changed_properties

`changed_properties`

The list of changed properties in the object.

Type

String array.

Search

The field is not available for search.

Notes

The changed_properties is part of the base object.

The changed_properties cannot be updated.

changed_properties cannot be written.

changed_time

`changed_time`

The time when the object was changed.

Type

Timestamp.

Search

The field is not available for search.

Notes

The changed_time is part of the base object.

The changed_time cannot be updated.

changed_time cannot be written.

object_name

`object_name`

The name of the changed object.

Type

String.

Search

The field is not available for search.

Notes

The object_name is part of the base object.

The object_name cannot be updated.

object_name cannot be written.

object_type

`object_type`

The type of the changed object. This is undefined if the object is not supported.

Type

String.

Search

The field is not available for search.

Notes

The object_type is part of the base object.

The object_type cannot be updated.

object_type cannot be written.

user_name

`user_name`

The name of the user who changed the object properties.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The user_name is part of the base object.

The user_name cannot be updated.

user_name cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

service

`service`

The service that is waiting for restart.

Type

String.

Valid values are:

- ALL
- DHCP
- DNS

Search

The field is available for search via

- '=' (exact equality)

Notes

service is a search-only field.

source

source

The ref to source object (grid:servicerestart:group or member) of the changes.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

source is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
action	String	N	Y	Y	N/A
changed_properties	[String]	N	Y	Y	N/A
changed_time	Timestamp	N	Y	Y	N/A
object_name	String	N	Y	Y	N/A
object_type	String	N	Y	Y	N/A
user_name	String	N	Y	Y	: = ~
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
service	String	=
source	String	=

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grid:servicerestart:status : Restart Status object.
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  - success
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- Fields List

Previous topic

grid:servicerestart:request:changedobject : Grid service restart request changed object.

Next topic

grid:threatinsight : Grid threat insight object.

grid:servicerestart:status : Restart Status object.

The Restart Status object provides information and statistics about service restart routine for the Grid or Service Restart Group.

Object Reference

References to grid:servicerestart:status are object references.

The *name* part of the name server group status object reference has the following components:

- Name of the Grid or Service Restart Group

Example: grid:servicerestart:status/ZG5zLmJpbmRfY25h:restartgroup1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **failures, finished, grouped, needed_restart, no_restart, parent, pending, pending_restart, processing, restarting, success, timeouts**.

failures

failures

The number of failed requests.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The failures is part of the base object.

The failures cannot be updated.

failures cannot be written.

finished

`finished`

The number of finished requests.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The finished is part of the base object.

The finished cannot be updated.

finished cannot be written.

grouped

`grouped`

The type of grouping.

Type

String.

Valid values are:

- GRID
- GROUP

Search

The field is not available for search.

Notes

The grouped is part of the base object.

The grouped cannot be updated.

grouped cannot be written.

needed_restart

`needed_restart`

The number of created yet unprocessed requests for restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The needed_restart is part of the base object.

The needed_restart cannot be updated.

needed_restart cannot be written.

no_restart

`no_restart`

The number of requests that did not require a restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The no_restart is part of the base object.

The no_restart cannot be updated.

no_restart cannot be written.

parent

parent

A reference to the grid or grid:servicerestart:group object associated with the request.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The parent is part of the base object.

The parent cannot be updated.

parent cannot be written.

pending

pending

The number of requests that are pending a restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The pending is part of the base object.

The pending cannot be updated.

pending cannot be written.

pending_restart

pending_restart

The number of forced or needed requests pending for restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The pending_restart is part of the base object.

The pending_restart cannot be updated.

pending_restart cannot be written.

processing

`processing`

The number of not forced and not needed requests pending for restart.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The processing is part of the base object.

The processing cannot be updated.

processing cannot be written.

restarting

`restarting`

The number of service restarts for corresponding members.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The restarting is part of the base object.

The restarting cannot be updated.

restarting cannot be written.

success

`success`

The number of requests associated with successful restarts.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The success is part of the base object.

The success cannot be updated.

success cannot be written.

timeouts

`timeouts`

The number of timeout requests.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The timeouts is part of the base object.

The timeouts cannot be updated.

timeouts cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
	Unsigned				

failures	int	N	Y	Y	N/A
finished	Unsigned int	N	Y	Y	N/A
grouped	String	N	Y	Y	N/A
needed_restart	Unsigned int	N	Y	Y	N/A
no_restart	Unsigned int	N	Y	Y	N/A
parent	String	N	Y	Y	=
pending	Unsigned int	N	Y	Y	N/A
pending_restart	Unsigned int	N	Y	Y	N/A
processing	Unsigned int	N	Y	Y	N/A
restarting	Unsigned int	N	Y	Y	N/A
success	Unsigned int	N	Y	Y	N/A
timeouts	Unsigned int	N	Y	Y	N/A

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Previous topic

grid:servicerestart:status : Restart Status object.

Next topic

grid:threatprotection : The Grid threat protection object.

grid:threatinsight : Grid threat insight object.

To mitigate DNS data exfiltration, Infoblox DNS threat insight employs analytics algorithms that analyze incoming DNS queries and responses to detect DNS tunneling traffic.

The Grid threat insight object contains settings and information about updates download, and mitigation response policy zone to which queries on blocklisted domains are transferred.

Object Reference

References to grid:threatinsight are object references.

The *name* part of the Grid threat insight object reference has the following components:

- The name of the Grid

Example (using _ref or UUID):

Using _ref grid:threatinsight/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:Infoblox

Using UUID grid:threatinsight/123e4567e89b12d3a456426614174000

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **enable_auto_download, enable_scheduled_download, module_update_policy, name, uuid**.

allowlist_update_policy

`allowlist_update_policy`

allowlist update policy (manual or automatic)

Type

String.

Valid values are:

- AUTOMATIC
- MANUAL

Create

The default value is *AUTOMATIC*.

Search

The field is not available for search.

configure_domain_collapsing

`configure_domain_collapsing`

Disable domain collapsing at grid level

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

current_allowlist

`current_allowlist`

The Grid allowlist.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The current_allowlist cannot be updated.

current_allowlist cannot be written.

current_moduleset

`current_moduleset`

The current threat insight module set.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The current_moduleset cannot be updated.

current_moduleset cannot be written.

dns_tunnel_block_list_rpz_zones

`dns_tunnel_block_list_rpz_zones`

The list of response policy zones for DNS tunnelling requests.

Type

A/An zone_rp object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

domain_collapsing_level

`domain_collapsing_level`

Level of domain collapsing

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

enable_allowlist_auto_download

`enable_allowlist_auto_download`

Indicates whether auto download service is enabled

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_allowlist_scheduled_download

`enable_allowlist_scheduled_download`

Indicates whether the custom scheduled settings for auto download is enabled. If false then default frequency is once per 24 hours

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_auto_download

`enable_auto_download`

Determines whether the automatic threat insight module set download is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_auto_download is part of the base object.

enable_scheduled_download

`enable_scheduled_download`

Determines whether the scheduled download of the threat insight module set is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_scheduled_download is part of the base object.

last_allowlist_update_time

`last_allowlist_update_time`

The last update time for the threat insight allowlist.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_allowlist_update_time cannot be updated.

last_allowlist_update_time cannot be written.

last_allowlist_update_version

`last_allowlist_update_version`

The version number of the last updated threat insight allowlist.

Type

String.

Search

The field is not available for search.

Notes

The last_allowlist_update_version cannot be updated.

last_allowlist_update_version cannot be written.

last_checked_for_allowlist_update

`last_checked_for_allowlist_update`

Timestamp of last checked allowlist

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_checked_for_allowlist_update cannot be updated.

last_checked_for_allowlist_update cannot be written.

last_checked_for_package_update

`last_checked_for_package_update`

The last update time for the threat insight moduleset package.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_checked_for_package_update cannot be updated.

last_checked_for_package_update cannot be written.

last_checked_for_update

`last_checked_for_update`

The last time when the threat insight module set was checked for the update.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_checked_for_update cannot be updated.

last_checked_for_update cannot be written.

last_module_update_time

`last_module_update_time`

The last update time for the threat insight module set.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_module_update_time cannot be updated.

last_module_update_time cannot be written.

last_module_update_version

`last_module_update_version`

The version number of the last updated threat insight module set.

Type

String.

Search

The field is not available for search.

Notes

The last_module_update_version cannot be updated.

last_module_update_version cannot be written.

last_updated_package_version

`last_updated_package_version`

The version number of the last updated Moduleset package.

Type

String.

Search

The field is not available for search.

Notes

The last_updated_package_version cannot be updated.

last_updated_package_version cannot be written.

module_update_policy

`module_update_policy`

The update policy for the threat insight module set.

Type

String.

Valid values are:

- AUTOMATIC
- MANUAL

Create

The default value is *AUTOMATIC*.

Search

The field is not available for search.

Notes

The module_update_policy is part of the base object.

name

`name`

The Grid name.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

scheduled_allowlist_download

`scheduled_allowlist_download`

Schedule setting for automatic allowlist update run

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

scheduled_download

`scheduled_download`

The schedule settings for the threat insight module set download.

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

download_threat_insight_allowlist_update

Use this method to download and apply update for the threat insight allowlist.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

is_allowlist (Bool.). This parameter is mandatory. Parameter to differentiate whether it is allowlist or moduleset

Output fields

None

download_threat_insight_moduleset_update

Use this method to download and apply update for the threat insight moduleset.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

move_blocklist_rpz_to_allow_list

Use this function to replace blocklist RPZ with threat insight Allow lists.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

rpz_cnames (A/An record:rpz:cname object array.). This parameter is mandatory. The list of RPZ CNAME records to be replaced with threat insight allowlists.

Output fields

None

set_last_uploaded_threat_insight_moduleset

Use this method to set last uploaded threat insight moduleset and allowlist.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

moduleset_token (String.). This parameter is mandatory. The token returned by the uploadinit function call in object fileop.

Output fields

None

test_threat_insight_server_connectivity

Use this method to test threat insight server connectivity.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

error_messages (String array.) The list of error messages for failed connectivity test.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall connectivity test status.

update_threat_insight_moduleset

Use this method to update threat insight moduleset and allowlist.

This function does not support multiple object matches when called as part of

an atomic insertion operation.

Input fields

None

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
allowlist_update_policy	String	N	N	N	N/A
configure_domain_collapsing	Bool	N	N	N	N/A
current_allowlist	String	N	Y	N	N/A
current_moduleset	String	N	Y	N	N/A
dns_tunnel_block_list_rpz_zones	[obj]	N	N	N	N/A
domain_collapsing_level	Unsigned int	N	N	N	N/A
enable_allowlist_auto_download	Bool	N	N	N	N/A
enable_allowlist_scheduled_download	Bool	N	N	N	N/A
enable_auto_download	Bool	N	N	Y	N/A
enable_scheduled_download	Bool	N	N	Y	N/A
last_allowlist_update_time	Timestamp	N	Y	N	N/A
last_allowlist_update_version	String	N	Y	N	N/A
last_checked_for_allowlist_update	Timestamp	N	Y	N	N/A
last_checked_for_package_update	Timestamp	N	Y	N	N/A
last_checked_for_update	Timestamp	N	Y	N	N/A
last_module_update_time	Timestamp	N	Y	N	N/A
last_module_update_version	String	N	Y	N	N/A
last_updated_package_version	String	N	Y	N	N/A
module_update_policy	String	N	N	Y	N/A
name	String	N	Y	Y	=
scheduled_allowlist_download	struct	N	N	N	N/A
scheduled_download	struct	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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grid:threatinsight : Grid threat insight object.

Next topic

grid:x509certificate : X509Certificate object.

grid:threatprotection : The Grid threat protection object.

The Grid threat protection settings.

Object Reference

References to grid:threatprotection are object references.

The *name* part of the grid:threatprotection object reference has the following components:

- The name of the Grid.

Example (using _ref or UUID):

```
# Using _ref grid:threatprotection/YXRwLmNsdXN0ZXJfYXRwX3Byb3BlcnRpZXMkMA:Infoblox

# Using UUID grid:threatprotection/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **grid_name, uuid**.

current_ruleset

`current_ruleset`

The current Grid ruleset.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

disable_multiple_dns_tcp_request

disable_multiple_dns_tcp_request

Determines if multiple BIND responses via TCP connection are disabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_accel_resp_before_threat_protection

enable_accel_resp_before_threat_protection

Determines if DNS responses are sent from acceleration cache before applying Threat Protection rules. Recommended for better performance when using DNS Cache Acceleration.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_auto_download

enable_auto_download

Determines if auto download service is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_nat_rules

enable_nat_rules

Determines if NAT (Network Address Translation) mapping for threat protection is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_scheduled_download

`enable_scheduled_download`

Determines if scheduled download is enabled. The default frequency is once in every 24 hours if it is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

events_per_second_per_rule

`events_per_second_per_rule`

The number of events logged per second per rule.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

grid_name

`grid_name`

The Grid name.

Type

String.

Search

The field is not available for search.

Notes

The grid_name is part of the base object.

The grid_name cannot be updated.

grid_name cannot be written.

last_checked_for_update

`last_checked_for_update`

The time when the Grid last checked for updates.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_checked_for_update cannot be updated.

last_checked_for_update cannot be written.

last_rule_update_timestamp

`last_rule_update_timestamp`

The last rule update timestamp.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_rule_update_timestamp cannot be updated.

last_rule_update_timestamp cannot be written.

last_rule_update_version

`last_rule_update_version`

The version of last rule update.

Type

String.

Search

The field is not available for search.

Notes

The last_rule_update_version cannot be updated.

last_rule_update_version cannot be written.

nat_rules

nat_rules

The list of NAT mapping rules for threat protection.

Type

A/An NAT Threat Protection Rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

outbound_settings

outbound_settings

Outbound settings for ATP events.

Type

A/An Outbound settings for ATP events struct.

Create

The default value is:

```
{'enable_query_fqdn': False, 'query_fqdn_limit': 2}
```

Search

The field is not available for search.

rule_update_policy

rule_update_policy

The update rule policy.

Type

String.

Valid values are:

- AUTOMATIC
- MANUAL

Create

The default value is *AUTOMATIC*.

Search

The field is not available for search.

scheduled_download

`scheduled_download`

The schedule setting for automatic rule update.

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

atp_object_reset

This function is used to invoke a factory reset on an ATP object.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

atp_object (String.). This parameter is mandatory. The reference to object to reset. It can be a rule, ruleset, or a category.

delete_custom_rules (Bool.). This parameter is mandatory. Determines if custom rules will be deleted. Applicable only if atp_object is a ruleset or a category. The default value is "False".

Output fields

None

test_atp_server_connectivity

This function is used to test the connectivity to the ATP server.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

error_messages (String array.) List of errors that occurred.

overall_status (String. Valid values are: “SUCCESS”, “FAILED”) Overall status of the test.

Fields List

Field	Type	Req	R/O	Base	Search
current_ruleset	String	N	N	N	N/A
disable_multiple_dns_tcp_request	Bool	N	N	N	N/A
enable_accel_resp_before_threat_protection	Bool	N	N	N	N/A
enable_auto_download	Bool	N	N	N	N/A
enable_nat_rules	Bool	N	N	N	N/A
enable_scheduled_download	Bool	N	N	N	N/A
events_per_second_per_rule	Unsigned int	N	N	N	N/A
grid_name	String	N	Y	Y	N/A
last_checked_for_update	Timestamp	N	Y	N	N/A
last_rule_update_timestamp	Timestamp	N	Y	N	N/A
last_rule_update_version	String	N	Y	N	N/A
nat_rules	[struct]	N	N	N	N/A
outbound_settings	struct	N	N	N	N/A
rule_update_policy	String	N	N	N	N/A
scheduled_download	struct	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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grid:x509certificate : X509Certificate object.

In the X.509 system, a certification authority issues a certificate binding a public key to a particular distinguished name in the X.500 tradition, or to an alternative name such as an e-mail address or a DNS entry.

Object Reference

References to grid:x509certificate are object references.

The *name* part of the Grid x509certificate object reference has the following components:

- Serial number of Gird x509certificate

Example:

```
# Using _ref
grid:x509certificate/ZGldHdvcmtfdmlldyQxMTk:serialnum1

# Using UUID
grid:x509certificate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **issuer, serial, subject, uuid**.

issuer

`issuer`

Certificate issuer.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The issuer is part of the base object.

The issuer cannot be updated.

issuer cannot be written.

serial

`serial`

X509Certificate serial number.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The serial is part of the base object.

The serial cannot be updated.

serial cannot be written.

subject

`subject`

A Distinguished Name that is made of multiple relative distinguished names (RDNs).

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The subject is part of the base object.

The subject cannot be updated.

subject cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_not_after

`valid_not_after`

Certificate expiry date.

Type

Timestamp.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

The valid_not_after cannot be updated.

valid_not_after cannot be written.

valid_not_before

`valid_not_before`

Certificate validity start date.

Type

Timestamp.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

The valid_not_before cannot be updated.

valid_not_before cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
issuer	String	N	Y	Y	: = ~
serial	String	N	Y	Y	: = ~
subject	String	N	Y	Y	: = ~
uuid	String	N	Y	Y	: = ~
valid_not_after	Timestamp	N	Y	N	! < = >
valid_not_before	Timestamp	N	Y	N	! < = >

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Table of Contents

hostnamerewritepolicy : Hostname rewrite policy object.
- Object Reference
- Restrictions
- Fields
  - is_default
  - name
  - pre_defined
  - replacement_character
  - uuid
  - valid_characters
- Fields List

Previous topic

grid:x509certificate : X509Certificate object.

Next topic

hsm:allgroups : All Hardware Security Module groups object.

hostnamerewritepolicy : Hostname rewrite policy object.

A hostname rewrite policy object represents the set of valid characters as well as replacement characters for names that do not conform to the policy.

Object Reference

References to hostnamerewritepolicy are object references.

The *name* part of the hostnamerewritepolicy object reference has the following components:

- The name of the hostname rewrite policy object.

Example (using _ref or UUID):

```
# Using _ref hostnamerewritepolicy/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:Default

# Using UUID hostnamerewritepolicy/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, replacement_character, uuid, valid_characters**.

The following fields are required to create this object:

Field	Notes
name	
replacement_character	
valid_characters	

is_default

`is_default`

True if the policy is the Grid default.

Type

Bool.

Search

The field is not available for search.

Notes

The is_default cannot be updated.

is_default cannot be written.

name

`name`

The name of a hostname rewrite policy object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pre_defined

`pre_defined`

Determines whether the policy is a predefined one.

Type

Bool.

Search

The field is not available for search.

Notes

The pre_defined cannot be updated.

pre_defined cannot be written.

replacement_character

`replacement_character`

The replacement character for symbols in hostnames that do not conform to the hostname policy.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The replacement_character is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_characters

`valid_characters`

The set of valid characters represented in string format.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The valid_characters is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
is_default	Bool	N	Y	N	N/A
name	String	Y	N	Y	: = ~
pre_defined	Bool	N	Y	N	N/A
replacement_character	String	Y	N	Y	N/A
uuid	String	N	Y	Y	: = ~
valid_characters	String	Y	N	Y	N/A

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Table of Contents

hsm:allgroups : All Hardware Security Module groups object.
- Object Reference
- Restrictions
- Fields
  - groups
- Fields List

Previous topic

hostnamerewritepolicy : Hostname rewrite policy object.

Next topic

hsm:entrustnshieldgroup : The Entrust nShield Harware Security Module group object.

hsm:allgroups : All Hardware Security Module groups object.

The All Hardware Security Module (HSM) groups object is used to retrieve all HSM groups configured on the appliance.

Object Reference

References to hsm:allgroups are object references.

The *name* part of the All HSM groups object reference has the following components:

- 'hsm' string

Example: hsm:allgroups/ZGldHdvcmtfdmlldyQxMTk:hsm

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **groups**.

groups

`groups`

The list of HSM groups configured on the appliance.

Type

An array of the following objects: hsm:thaleslunagroup,

hsm:entrustnshieldgroup.

This field supports nested return fields as described here.

Create

The default value is *The default is a list that contains all HSM groups configured on the appliance*.

Search

The field is not available for search.

Notes

The groups is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
groups	obj	N	N	Y	N/A

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Table of Contents

hsm:entrustnshieldgroup : The Entrust nShield Harware Security Module group object.
- Object Reference
- Restrictions
- Fields
  - card_name
  - comment
  - entrustnshield_hsm
  - key_server_ip
  - key_server_port
  - name
  - pass_phrase
  - protection
  - status
  - uuid
- Function Calls
  - refresh_hsm
  - test_hsm_status
- Fields List

Previous topic

hsm:allgroups : All Hardware Security Module groups object.

Next topic

hsm:safenetgroup : The Hardware Security Module SafeNet group object.

hsm:entrustnshieldgroup : The Entrust nShield Harware Security Module group object.

You can integrate a Grid with a third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing offloading. Infoblox appliances support integration with either Thales Luna HSMs or Entrust nShield HSMs. When using a network-attached HSM, you can provide tight physical access control, allowing only selected security personnel to physically access the HSM that stores the DNSSEC keys.

The Entrust nShield Hardware Security Module (HSM) group represents the collection of Entrust nShield HSM devices that are used for private key storage and generation.

Note that you can create one Entrust nShield HSM group in the Grid.

Object Reference

References to hsm:entrustnshieldgroup are object references.

The *name* part of the Entrust nShield HSM object reference has the following components:

- The Entrust nShield HSM group name

Example:

```
# Using _ref hsm:entrustnshieldgroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

# Using UUID hsm:entrustnshieldgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, key_server_ip, name, uuid**.

The following fields are required to create this object:

Field	Notes
card_name	See the field description for more information
entrustnshield_hsm	
key_server_ip	
name	
pass_phrase	See the field description for more information

card_name

`card_name`

The Entrust nShield HSM softcard name.

Type

String.

Create

You must specify card_name when protection is set to ‘SOFTCARD’.

Search

The field is not available for search.

comment

`comment`

The Entrust nShield HSM group comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment is part of the base object.

entrustnshield_hsm

`entrustnshield_hsm`

The list of Entrust nShield HSM devices.

Type

A/An Entrust nShield Hardware Security Module struct array.

Create

The field is required on creation.

Search

The field is not available for search.

key_server_ip

`key_server_ip`

The remote file server (RFS) IPv4 Address.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The key_server_ip is part of the base object.

key_server_port

`key_server_port`

The remote file server (RFS) port.

Type

Unsigned integer.

Create

The default value is *9004*.

Search

The field is not available for search.

name

`name`

The Entrust nShield HSM group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pass_phrase

`pass_phrase`

The password phrase used to unlock the Entrust nShield HSM keystore.

Type

String.

Create

You must specify pass_phrase when protection is set to 'SOFTCARD'.

Search

The field is not available for search.

Notes

pass_phrase is not readable.

protection

`protection`

The level of protection that the HSM group uses for the DNSSEC key data.

Type

String.

Valid values are:

- MODULE
- SOFTCARD

Create

The default value is *MODULE*.

Search

The field is not available for search.

status

`status`

The status of all Entrust nShield HSM devices in the group.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

refresh_hsm

This function is used to synchronize the HSM Entrust nShield configuration of HSM Entrust nShield devices.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “FAILED”) The result of the HSM synchronization operation.

test_hsm_status

This function is used to test and verify HSM Entrust nShield functionality (key pair request, predefined blob signing) via the utilities of the vendor.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “KEY_GEN”, “SIGNING”) The result of the HSM status test operation.

Fields List

Field	Type	Req	R/O	Base	Search
card_name	String	Y*	N	N	N/A
comment	String	N	N	Y	: = ~
entrustnshield_hsm	[struct]	Y	N	N	N/A
key_server_ip	String	Y	N	Y	N/A
key_server_port	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
pass_phrase	String	Y*	N	N	N/A
protection	String	N	N	N	N/A
status	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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hsm:safenetgroup : The Hardware Security Module SafeNet group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - group_sn
  - hsm_safenet
  - hsm_version
  - name
  - pass_phrase
  - status
- Function Calls
  - refresh_hsm
  - test_hsm_status
- Fields List

Previous topic

hsm:entrustnshieldgroup : The Entrust nShield Harware Security Module group object.

Next topic

hsm:thalesgroup : The Thales Hardware Security Module group object.

hsm:safenetgroup : The Hardware Security Module SafeNet group object.

Deprecated. You need to use Thales Luna Object instead. You can integrate a Grid with a third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing offloading. Infoblox appliances support integration with either SafeNet HSMs or Thales HSMs. When using a network-attached HSM, you can provide tight physical access control, allowing only selected security personnel to physically access the HSM that stores the DNSSEC keys.

The Hardware Security Module (HSM) SafeNet group represents the collection of HSM SafeNet devices that are used for private key storage and generation.

Note that you can create one HSM SafeNet group in the Grid.

Object Reference

References to hsm:safenetgroup are object references.

The *name* part of the Theales HSM object reference has the following components:

- The HSM SafeNet group name

Example:

hsm:safenetgroup/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, hsm_version, name**.

The following fields are required to create this object:

Field	Notes
hsm_safenet	
hsm_version	
name	
pass_phrase	

comment

`comment`

The HSM SafeNet group comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

group_sn

`group_sn`

The HSM SafeNet group serial number.

Type

String.

Search

The field is not available for search.

Notes

The group_sn cannot be updated.

group_sn cannot be written.

hsm_safenet

`hsm_safenet`

The list of HSM SafeNet devices.

Type

A/An SafeNet Hardware Security Module struct array.

Create

The field is required on creation.

Search

The field is not available for search.

hsm_version

`hsm_version`

The HSM SafeNet version.

Type

String.

Valid values are:

- LunaSA_4
- LunaSA_5
- LunaSA_6
- LunaSA_7

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The hsm_version is part of the base object.

The hsm_version cannot be updated.

name

`name`

The HSM SafeNet group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pass_phrase

`pass_phrase`

The pass phrase used to unlock the HSM SafeNet keystore.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

pass_phrase is not readable.

status

`status`

The status of all HSM SafeNet devices in the group.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

Function Calls

refresh_hsm

This function is used to synchronize the HSM SafeNet configuration of the HSM SafeNet devices.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “FAILED”) The result of the HSM synchronization operation.

test_hsm_status

This function is used to test and verify HSM SafeNet functionality (key pair request, predefined blob signing) via the utilities of the vendor.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “KEY_GEN”, “SIGNING”) The result of the HSM status test operation.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
group_sn	String	N	Y	N	N/A
hsm_safenet	[struct]	Y	N	N	N/A
hsm_version	String	Y	N	Y	N/A
name	String	Y	N	Y	: = ~
pass_phrase	String	Y	N	N	N/A
status	String	N	Y	N	N/A

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hsm:thalesgroup : The Thales Hardware Security Module group object.
- Object Reference
- Restrictions
- Fields
  - card_name
  - comment
  - key_server_ip
  - key_server_port
  - name
  - pass_phrase
  - protection
  - status
  - thales_hsm
- Function Calls
  - refresh_hsm
  - test_hsm_status
- Fields List

Previous topic

hsm:safenetgroup : The Hardware Security Module SafeNet group object.

Next topic

hsm:thaleslunagroup : The Hardware Security Module Thales Luna group object.

hsm:thalesgroup : The Thales Hardware Security Module group object.

Deprecated. You need to use Entrust nShield object instead. You can integrate a Grid with a third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing offloading. Infoblox appliances support integration with either SafeNet HSMs or Thales HSMs. When using a network-attached HSM, you can provide tight physical access control, allowing only selected security personnel to physically access the HSM that stores the DNSSEC keys.

The Thales Hardware Security Module (HSM) group represents the collection of Thales HSM devices that are used for private key storage and generation.

Note that you can create one Thales HSM group in the Grid.

Object Reference

References to hsm:thalesgroup are object references.

The *name* part of the Theales HSM object reference has the following components:

- The Thales HSM group name

Example:

hsm:thalesgroup/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, key_server_ip, name**.

The following fields are required to create this object:

Field	Notes
card_name	See the field description for more information
key_server_ip	
name	
pass_phrase	See the field description for more information
thales_hsm	

card_name

`card_name`

The Thales HSM softcard name.

Type

String.

Create

You must specify card_name when protection is set to ‘SOFTCARD’.

Search

The field is not available for search.

comment

`comment`

The Thales HSM group comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment is part of the base object.

key_server_ip

`key_server_ip`

The remote file server (RFS) IPv4 Address.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The key_server_ip is part of the base object.

key_server_port

`key_server_port`

The remote file server (RFS) port.

Type

Unsigned integer.

Create

The default value is *9004*.

Search

The field is not available for search.

name

`name`

The Thales HSM group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pass_phrase

`pass_phrase`

The password phrase used to unlock the Thales HSM keystore.

Type

String.

Create

You must specify pass_phrase when protection is set to ‘SOFTCARD’.

Search

The field is not available for search.

Notes

pass_phrase is not readable.

protection

`protection`

The level of protection that the HSM group uses for the DNSSEC key data.

Type

String.

Valid values are:

- MODULE
- SOFTCARD

Create

The default value is *MODULE*.

Search

The field is not available for search.

status

`status`

The status of all Thales HSM devices in the group.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

thales_hsm

`thales_hsm`

The list of Thales HSM devices.

Type

A/An Thales Hardware Security Module struct array.

Create

The field is required on creation.

Search

The field is not available for search.

Function Calls

refresh_hsm

This function is used to synchronize the HSM Thales configuration of HSM Thales devices.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “FAILED”) The result of the HSM synchronization operation.

test_hsm_status

This function is used to test and verify HSM Thales functionality (key pair request, predefined blob signing) via the utilities of the vendor.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “KEY_GEN”, “SIGNING”) The result of the HSM status test operation.

Fields List

Field	Type	Req	R/O	Base	Search
card_name	String	Y*	N	N	N/A
comment	String	N	N	Y	: = ~
key_server_ip	String	Y	N	Y	N/A
key_server_port	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
pass_phrase	String	Y*	N	N	N/A
protection	String	N	N	N	N/A
status	String	N	Y	N	N/A
thales_hsm	[struct]	Y	N	N	N/A

* Required in some cases, see detailed field description above.

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hsm:thaleslunagroup : The Hardware Security Module Thales Luna group object.
- Object Reference
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- Fields
  - comment
  - group_sn
  - hsm_version
  - name
  - pass_phrase
  - status
  - thalesluna
  - uuid
- Function Calls
  - refresh_hsm
  - test_hsm_status
- Fields List

Previous topic

hsm:thalesgroup : The Thales Hardware Security Module group object.

Next topic

ipam:statistics : IPAM statistics object.

hsm:thaleslunagroup : The Hardware Security Module Thales Luna group object.

You can integrate a Grid with a third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing offloading. Infoblox appliances support integration with either Thales Luna HSMs or Entrust nShield HSMs. When using a network-attached HSM, you can provide tight physical access control, allowing only selected security personnel to physically access the HSM that stores the DNSSEC keys.

The Hardware Security Module (HSM) Thales Luna group represents the collection of HSM Thales Luna devices that are used for private key storage and generation.

Note that you can create one HSM Thales Luna group in the Grid.

Object Reference

References to hsm:thaleslunagroup are object references.

The *name* part of the Thales Luna HSM object reference has the following components:

- The HSM Thales Luna group name

Example:

```
# Using _ref hsm:thaleslunagroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

# Using UUID hsm:thaleslunagroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, hsm_version, name, uuid**.

The following fields are required to create this object:

Field	Notes
hsm_version	
name	
pass_phrase	
thalesluna	

comment

`comment`

The HSM Thales Luna group comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

group_sn

`group_sn`

The HSM Thales Luna group serial number.

Type

String.

Search

The field is not available for search.

Notes

The group_sn cannot be updated.

group_sn cannot be written.

hsm_version

`hsm_version`

The HSM Thales Luna version.

Type

String.

Valid values are:

- Luna_4
- Luna_5
- Luna_6
- Luna_7_CPL

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The hsm_version is part of the base object.

The hsm_version cannot be updated.

name

name

The HSM Thales Luna group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pass_phrase

pass_phrase

The pass phrase used to unlock the HSM Thales Luna keystore.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

pass_phrase is not readable.

status

status

The status of all HSM Thales Luna devices in the group.

Type

String.

Valid values are:

- DOWN
- UP

Search

The field is not available for search.

Notes

The status cannot be updated.

status cannot be written.

thalesluna

`thalesluna`

The list of HSM Thales Luna devices.

Type

A/An Thales Luna Hardware Security Module struct array.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

refresh_hsm

This function is used to synchronize the HSM Thales Luna configuration of the HSM Thales Luna devices.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: "PASSED", "INACTIVE", "FAILED") The result of the HSM synchronization operation.

test_hsm_status

This function is used to test and verify HSM Thales Luna functionality (key pair request, predefined blob signing) via the utilities of the vendor.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

results (String. Valid values are: “PASSED”, “INACTIVE”, “KEY_GEN”, “SIGNING”) The result of the HSM status test operation.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
group_sn	String	N	Y	N	N/A
hsm_version	String	Y	N	Y	N/A
name	String	Y	N	Y	: = ~
pass_phrase	String	Y	N	N	N/A
status	String	N	Y	N	N/A
thalesluna	[struct]	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Previous topic

hsm:thaleslunagroup : The Hardware Security Module Thales Luna group object.

Next topic

ipv4address : IPAM IPv4Address object.

ipam:statistics : IPAM statistics object.

A synthetic object used to view the IPAM statistics of the network or network container in an Infoblox appliance

Object Reference

References to ipam:statistics are object references.

The *name* part of the ipamstatistics object reference has the following components:

- The name of the network view associated with an ipamstatistics object.
- IP address of the network.
- CIDR of the network.

Example:

ipam:statistics/ZG5zLm5ldHdvcmskMTEuMC4wLjAvOC8xMQ:external1/11.0.0.0/8

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **cidr, network, network_view**.

cidr

`cidr`

The network CIDR.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The cidr is part of the base object.

The cidr cannot be updated.

cidr cannot be written.

conflict_count

`conflict_count`

The number of conflicts discovered via network discovery. This attribute is only valid for a Network object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The conflict_count cannot be updated.

conflict_count cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The network view.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

unmanaged_count

`unmanaged_count`

The number of unmanaged IP addresses as discovered by network discovery. This attribute is only valid for a Network object.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The unmanaged_count cannot be updated.

unmanaged_count cannot be written.

utilization

`utilization`

The network utilization in percentage.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The utilization cannot be updated.

utilization cannot be written.

utilization_update

`utilization_update`

The time that the utilization statistics were updated last. This attribute is only valid for a Network object. For a Network Container object, the return value is undefined.

Type

Timestamp.

Search

The field is not available for search.

Notes

The utilization_update cannot be updated.

utilization_update cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cidr	Unsigned int	N	Y	Y	N/A
conflict_count	Unsigned int	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	N	Y	Y	= ~
network_view	String	N	Y	Y	=
unmanaged_count	Unsigned int	N	Y	N	N/A
utilization	Unsigned int	N	Y	N	N/A
utilization_update	Timestamp	N	Y	N	N/A

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ipv4address : IPAM IPv4Address object.

This object is created only as part of the record.host object, it cannot be created directly.

Object Reference

References to ipv4address are object references. The *name* part of a ipv4address object reference has the following components:

- IP address
- Name of the network view

Example: ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMC4wLjEvMQ:10.0.0.1/external

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dhcp_client_identifier, ip_address, is_conflict, lease_state, mac_address, names, network, network_view, objects, status, types, usage**.

comment

`comment`

Comment for the address; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

conflict_types

`conflict_types`

Types of the conflict.

Type

Enum values array.

Valid values are:

- DEVICE_TYPE
- DEVICE_VENDOR
- DHCP_RANGE
- DUID
- MAC_ADDRESS
- NONE
- RESERVED_PORT
- USED_RESERVED_PORT
- VM_AFFILIATION

Search

The field is not available for search.

Notes

The conflict_types cannot be updated.

conflict_types cannot be written.

dhcp_client_identifier

`dhcp_client_identifier`

The client unique identifier.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The dhcp_client_identifier is part of the base object.

The dhcp_client_identifier cannot be updated.

dhcp_client_identifier cannot be written.

discover_now_status

`discover_now_status`

Discover now status for this address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

`discovered_data`

The discovered data for this address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fingerprint

`fingerprint`

DHCP fingerprint for the address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The fingerprint cannot be updated.

fingerprint cannot be written.

ip_address

`ip_address`

The IP address.

Type

String.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The ip_address is part of the base object.

The ip_address cannot be updated.

ip_address cannot be written.

is_conflict

`is_conflict`

If set to True, the IP address has either a MAC address conflict or a DHCP lease conflict detected through a network discovery.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_conflict is part of the base object.

The is_conflict cannot be updated.

is_conflict cannot be written.

is_invalid_mac

`is_invalid_mac`

This flag reflects whether the MAC address for this address is invalid.

Type

Bool.

Search

The field is not available for search.

Notes

The is_invalid_mac cannot be updated.

is_invalid_mac cannot be written.

lease_state

`lease_state`

The lease state of the address.

Type

String.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The lease_state is part of the base object.

The lease_state cannot be updated.

lease_state cannot be written.

mac_address

`mac_address`

The MAC address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The mac_address is part of the base object.

The mac_address cannot be updated.

mac_address cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

names

names

The DNS names. For example, if the IP address belongs to a host record, this field contains the hostname. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The names is part of the base object.

The names cannot be updated.

names cannot be written.

network

network

The network to which this address belongs, in FQDN/CIDR format.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network is part of the base object.

The network cannot be updated.

network cannot be written.

network_view

network_view

The name of the network view.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

objects

`objects`

The objects associated with the IP address.

Type

String.

Search

The field is not available for search.

Notes

The objects is part of the base object.

The objects cannot be updated.

objects cannot be written.

reserved_port

`reserved_port`

The reserved port for the address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The reserved_port cannot be updated.

reserved_port cannot be written.

status

`status`

The current status of the address.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

types

`types`

The types of associated objects. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The types is part of the base object.

The types cannot be updated.

types cannot be written.

usage

`usage`

Indicates whether the IP address is configured for DNS or DHCP. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The usage is part of the base object.

The usage cannot be updated.

usage cannot be written.

username

`username`

The name of the user who created or modified the record. The "username" field is populated only for lease objects that have a MAC Address Filter configured with user details.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The username cannot be updated.

username cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)

- ‘=’ (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register

for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)

- ‘=’ (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: “eth1,eth2,eth3”.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)

- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	N	: = ~
conflict_types	[Enum]	N	Y	N	N/A
dhcp_client_identifier	String	N	Y	Y	: = ~
discover_now_status	String	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
fingerprint	String	N	Y	N	: = ~
ip_address	String	N	Y	Y	< = >
is_conflict	Bool	N	Y	Y	=
is_invalid_mac	Bool	N	Y	N	N/A
lease_state	String	N	Y	Y	: =
mac_address	String	N	Y	Y	: = ~
ms_ad_user_data	struct	N	Y	N	N/A
names	[String]	N	Y	Y	: = ~
network	String	N	Y	Y	=
network_view	String	N	Y	Y	=
objects	String	N	Y	Y	N/A
reserved_port	String	N	Y	N	N/A
status	String	N	Y	Y	=
types	[String]	N	Y	Y	: =
usage	[String]	N	Y	Y	: =
username	String	N	Y	N	: = ~

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned	! < = >

	int	
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~

discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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ipv6address : IPAM IPv6Address object.

This object is created only as part of the record.host object, it cannot be created directly.

Object Reference

References to ipv6address are object references. The *name* part of an ipv6address object reference has the following components:

- IP address
- Name of the network view

Example: ipv6address/Li5pcHY0X2FkZHJlc3MkMTAuMC4wLjEvMQ:abcd::1/external

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **duid, ip_address, is_conflict, lease_state, names, network, network_view, objects, status, types, usage**.

comment

`comment`

Comment for the address; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

conflict_types

`conflict_types`

Types of the conflict.

Type

Enum values array.

Valid values are:

- DEVICE_TYPE
- DEVICE_VENDOR
- DHCP_RANGE
- DUID
- MAC_ADDRESS
- NONE
- RESERVED_PORT
- USED_RESERVED_PORT
- VM_AFFILIATION

Search

The field is not available for search.

Notes

The conflict_types cannot be updated.

conflict_types cannot be written.

discover_now_status

`discover_now_status`

Discover now status for this address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

`discovered_data`

The discovered data for this address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

duid

`duid`

DHCPv6 Unique Identifier (DUID) of the address object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The duid is part of the base object.

The duid cannot be updated.

duid cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fingerprint

fingerprint

DHCP fingerprint for the address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The fingerprint cannot be updated.

fingerprint cannot be written.

ip_address

ip_address

IPv6 addresses of the address object.

Type

String.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)

- ‘=’ (exact equality)

Notes

The ip_address is part of the base object.

The ip_address cannot be updated.

ip_address cannot be written.

is_conflict

`is_conflict`

IP address has either a duid conflict or a DHCP lease conflict detected through a network discovery.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The is_conflict is part of the base object.

The is_conflict cannot be updated.

is_conflict cannot be written.

lease_state

`lease_state`

The lease state of the address.

Type

String.

Search

The field is available for search via

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The lease_state is part of the base object.

The lease_state cannot be updated.

lease_state cannot be written.

ms_ad_user_data

ms_ad_user_data

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

names

names

The DNS names. For example, if the IP address belongs to a host record, this field contains the hostname. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The names is part of the base object.

The names cannot be updated.

names cannot be written.

network

network

The network to which this address belongs, in FQDN/CIDR format.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The network is part of the base object.

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The name of the network view.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

objects

`objects`

The objects associated with the IP address.

Type

String.

Search

The field is not available for search.

Notes

The objects is part of the base object.

The objects cannot be updated.

objects cannot be written.

reserved_port

`reserved_port`

The reserved port for the address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The reserved_port cannot be updated.

reserved_port cannot be written.

status

`status`

The current status of the address.

Type

String.

Valid values are:

- UNUSED
- USED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

types

`types`

The types of associated objects. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The types is part of the base object.

The types cannot be updated.

types cannot be written.

usage

`usage`

Indicates whether the IP address is configured for DNS or DHCP. This field supports both single and array search.

Type

String array.

Search

The field is available for search via

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The usage is part of the base object.

The usage cannot be updated.

usage cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

'~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	N	: = ~
conflict_types	[Enum]	N	Y	N	N/A
discover_now_status	String	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
duid	String	N	Y	Y	: = ~
extattrs	Extattr	N	N	N	ext
fingerprint	String	N	Y	N	: = ~
ip_address	String	N	Y	Y	< = >
is_conflict	Bool	N	Y	Y	=
lease_state	String	N	Y	Y	: =
ms_ad_user_data	struct	N	Y	N	N/A
names	[String]	N	Y	Y	: = ~
network	String	N	Y	Y	=
network_view	String	N	Y	Y	=
objects	String	N	Y	Y	N/A
reserved_port	String	N	Y	N	N/A
status	String	N	Y	Y	=
types	[String]	N	Y	Y	: =
usage	[String]	N	Y	Y	: =

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~

discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~

discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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ipv6dhcpoptiondefinition : DHCP IPv6 option definition object.
- Object Reference
- Restrictions
- Fields
  - code
  - name
  - space
  - type
  - uuid
- Fields List

Previous topic

ipv6address : IPAM IPv6Address object.

Next topic

ipv6dhcpoptionspace : DHCP IPv6 option space object.

ipv6dhcpoptiondefinition : DHCP IPv6 option definition object.

An IPv6 option definition defines a DHCP IPv6 option within a specific IPv6 option space. A custom IPv6 option can be defined in the predefined DHCP IPv6 option space or in the user-defined vendor IPv6 option space. To define an IPv6 option, add the IPv6 option definition to the required IPv6 option space.

Object Reference

References to ipv6dhcpoptiondefinition are object references.

The *name* part of the ipv6dhcpoptiondefinition object reference has the following components:

- The name of the DHCP IPv6 option definition object.

Example (using _ref or UUID):

```
# Using _ref ipv6dhcpoptiondefinition/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:first

# Using UUID ipv6dhcpoptiondefinition/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **code, name, type, uuid**.

The following fields are required to create this object:

Field	Notes
code	
name	
type	

code

`code`

The code of a DHCP IPv6 option definition object. An option code number is used to identify the DHCP option.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The code is part of the base object.

name

`name`

The name of a DHCP IPv6 option definition object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

space

`space`

The space of a DHCP option definition object.

Type

String.

Create

The default value is *DHCPv6*.

Search

The field is available for search via

- '=' (exact equality)

type

`type`

The data type of the Grid DHCP IPv6 option.

Type

String.

Valid values are:

- 16-bit signed integer
- 16-bit unsigned integer
- 32-bit signed integer
- 32-bit unsigned integer
- 8-bit signed integer
- 8-bit unsigned integer
- 8-bit unsigned integer (1,2,4,8)
- array of 16-bit integer
- array of 16-bit unsigned integer
- array of 32-bit integer
- array of 32-bit unsigned integer
- array of 8-bit integer
- array of 8-bit unsigned integer
- array of ip-address
- boolean
- boolean array of ip-address
- boolean-text
- domain-list
- domain-name
- ip-address
- string
- text

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
code	Unsigned int	Y	N	Y	=
name	String	Y	N	Y	: = ~
space	String	N	N	N	=
type	String	Y	N	Y	=
uuid	String	N	Y	Y	: = ~

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ipv6dhcpoptionspace : DHCP IPv6 option space object.
- Object Reference
- Restrictions
- Fields
  - comment
  - enterprise_number
  - name
  - option_definitions
  - uuid
- Fields List

Previous topic

ipv6dhcpoptiondefinition : DHCP IPv6 option definition object.

Next topic

ipv6filteroption : DHCP filter option object.

ipv6dhcpoptionspace : DHCP IPv6 option space object.

An IPv6 option space defines a namespace in which vendor IPv6 options can be defined. To define a specific vendor IPv6 option space, add an IPv6 option space to DHCP.

Object Reference

References to ipv6dhcpoptionspace are object references.

The *name* part of the ipv6dhcpoptionspace object reference has the following components:

- The name of the DHCP IPv6 option space.

Example (using _ref or UUID):

```
# Using _ref
ipv6dhcpoptionspace/ZG5zLm9wdGlvbl9zcGFjZSRibG94Li5mYWxzZQ:blox

# Using UUID
ipv6dhcpoptionspace/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, enterprise_number, name, uuid**.

The following fields are required to create this object:

Field	Notes
enterprise_number	
name	

comment

`comment`

A descriptive comment of a DHCP IPv6 option space object.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

enterprise_number

`enterprise_number`

The enterprise number of a DHCP IPv6 option space object.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The enterprise_number is part of the base object.

name

`name`

The name of a DHCP IPv6 option space object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

The name is part of the base object.

option_definitions

`option_definitions`

The list of DHCP IPv6 option definition objects.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
enterprise_number	Unsigned int	Y	N	Y	=
name	String	Y	N	Y	: = ~
option_definitions	[String]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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ipv6filteroption : DHCP filter option object.
- Object Reference
- Restrictions
- Fields
  - apply_as_class
  - comment
  - expression
  - extattrs
  - lease_time
  - name
  - option_list
  - option_space
  - uuid
- Fields List

Previous topic

ipv6dhcpoptionspace : DHCP IPv6 option space object.

Next topic

ipv6fixedaddress : DHCP IPv6 Fixed Address object.

ipv6filteroption : DHCP filter option object.

In the ISC DHCP terms, it defines a class of clients that match a particular (option, value) pair. To define an option filter, add an Option to the IPv6 DHCP Filter object.

Only superuser can add/modify/delete IPv6 option filters.

Object Reference

References to ipv6filteroption are object references.

The *name* part of the filteroption object reference has the following components:

- Name of the IPv6 Filter Option object

Example (using _ref or UUID):

```
# Using _ref
ipv6filteroption/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default

# Using UUID
ipv6filteroption/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

apply_as_class

apply_as_class

Determines if apply as class is enabled or not. If this flag is set to “true” the filter is treated as global DHCP class, e.g it is written to DHCPv6 configuration file even if it is not present in any DHCP range.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

comment

comment

The descriptive comment of a DHCP IPv6 filter option object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The comment is part of the base object.

expression

expression

The conditional expression of a DHCP IPv6 filter option object.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

lease_time

`lease_time`

Determines the lease time of a DHCP IPv6 filter option object.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

name

name

The name of a DHCP IPv6 option filter object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

option_list

option_list

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

option_space

option_space

The option space of a DHCP IPv6 filter option object.

Type

String.

Create

The default value is *DHCPv6*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
apply_as_class	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
expression	String	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
lease_time	Unsigned int	N	N	N	N/A
name	String	Y	N	Y	: = ~
option_list	[struct]	N	N	N	N/A
option_space	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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ipv6fixedaddress : DHCP IPv6 Fixed Address object.
- Object Reference
- Fields
  - address_type
  - allow_telnet
  - always_update_dns
  - cli_credentials
  - cloud_info
  - comment
  - device_description
  - device_location
  - device_type
  - device_vendor
  - disable
  - disable_discovery
  - discover_now_status
  - discovered_data
  - domain_name
  - domain_name_servers
  - duid
  - enable_ddns
  - enable_immediate_discovery
  - extattrs
  - ipv6addr
  - ipv6prefix
  - ipv6prefix_bits
  - logic_filter_rules
  - mac_address
  - match_client
  - ms_ad_user_data
  - ms_iaid
  - ms_options
  - ms_server
  - name
  - network
  - network_view
  - options
  - preferred_lifetime
  - reserved_interface
  - restart_if_needed
  - snmp3_credential
  - snmp_credential
  - template
  - use_cli_credentials
  - use_domain_name
  - use_domain_name_servers
  - use_enable_ddns
  - use_logic_filter_rules

ipv6fixedaddress : DHCP IPv6 Fixed Address object.

A IPv6 fixed address is a specific IP address that a DHCP server always assigns when a lease request comes from a particular DUID/MAC of the client.

Object Reference

References to ipv6fixedaddress are object references.

The *name* part of a DHCP IPv6 Fixed Address object reference has the following components:

- IP address or IP address prefix of the IPv6 fixed address
- Name of the view

Example (using _ref or UUID):

```
# Using _ref ipv6fixedaddress/ZG5zLmJpbmRfY25h:abcd::1/external

# Using UUID ipv6fixedaddress/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **duid, ipv6addr, mac_address, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
duid	The field is default
ipv6addr	See the field description for more information
ipv6prefix	See the field description for more information
ipv6prefix_bits	See the field description for more information
mac_address	See the field description for more information

address_type

address_type

The address type value for this IPv6 fixed address.

When the address type is “ADDRESS”, a value for the ‘ipv6addr’ member is required. When the address type is “PREFIX”, values for ‘ipv6prefix’ and ‘ipv6prefix_bits’ are required. When the address type is “BOTH”, values for ‘ipv6addr’, ‘ipv6prefix’, and ‘ipv6prefix_bits’ are all required.

Type

String.

Valid values are:

- ADDRESS
- BOTH

- PREFIX

Create

The default value is *ADDRESS*.

Search

The field is available for search via

- '=' (exact equality)

allow_telnet

`allow_telnet`

This field controls whether the credential is used for both the Telnet and SSH credentials. If set to False, the credential is used only for SSH.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

always_update_dns

`always_update_dns`

This field controls whether only the DHCPv6 server is allowed to update DNS, regardless of the DHCPv6 client requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

cli_credentials

`cli_credentials`

The CLI credentials for the IPv6 fixed address.

Type

A/An CLI credential struct array.

Create

The default value is *empty*.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the fixed address; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_description

`device_description`

The description of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_location

`device_location`

The location of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_type

`device_type`

The type of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_vendor

`device_vendor`

The vendor of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines whether a fixed address is disabled or not. When this is set to False, the IPv6 fixed address is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_discovery

`disable_discovery`

Determines if the discovery for this IPv6 fixed address is disabled or not. False means that the discovery is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

The discovery status of this IPv6 fixed address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

discovered_data

The discovered data for this IPv6 fixed address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

domain_name

domain_name

The domain name for this IPv6 fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

domain_name_servers

The IPv6 addresses of DNS recursive name servers to which the DHCP client can send name resolution requests. The DHCP server includes this information in the DNS Recursive Name Server option in Advertise, Rebind, Information-Request, and Reply messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

duid

duid

The DUID value for this IPv6 fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is default

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The duid is part of the base object.

enable_ddns

enable_ddns

The dynamic DNS updates flag of a DHCP IPv6 fixed address object. If set to True, the DHCPv6 server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_immediate_discovery

enable_immediate_discovery

Determines if the discovery for the IPv6 fixed address should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6addr

`ipv6addr`

The IPv6 Address of the DHCP IPv6 fixed address.

Type

String.

The field also supports automatic selection of the next available address in the specified IPv6 network or range. You can specify the IPv6 network or range in the following ways:

Using an IPv6 network or range WAPI reference:

- func:nextavailableip:<reference>

Using an IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using an IPv6 range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML

requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:abcd%3A%3A/64/default
- func:nextavailableip:abcd::/64
- func:nextavailableip:abcd::/64,external
- func:nextavailableip:abcd::20-abcd::30

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object ipv6network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object ipv6range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required if address_type is ADDRESS or BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

ipv6prefix

`ipv6prefix`

The IPv6 Address prefix of the DHCP IPv6 fixed address.

Type

String.

Create

The field is required if address_type is PREFIX or BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

ipv6prefix_bits

`ipv6prefix_bits`

Prefix bits of the DHCP IPv6 fixed address.

Type

Unsigned integer.

Create

The field is required if address_type is PREFIX or BOTH.

Search

The field is available for search via

- '=' (exact equality)

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied to this IPv6 fixed address.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

mac_address

`mac_address`

The MAC address for this IPv6 fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to MAC_ADDRESS.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mac_address is part of the base object.

match_client

`match_client`

The match_client value for this fixed address. Valid values are:

"DUID": The fixed IP address is leased to the matching DUID.

"MAC_ADDRESS": The fixed IP address is leased to the matching MAC address.

Type

String.

Valid values are:

- DUID
- MAC_ADDRESS

Create

The default value is *DUID*.

Search

The field is available for search via

- '=' (exact equality)

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

ms_iaid

`ms_iaid`

IAID associated with Microsoft IPv6 fixed address.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

ms_options

`ms_options`

This field contains the Microsoft DHCPv6 options for this IPv6 fixed address.

Type

A/An Microsoft DHCP Options struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ms_options is associated with the field use_ms_options (see use flag).

ms_server

ms_server

The Microsoft server associated with this IPv6 fixed address.

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

name

name

This field contains the name of this IPv6 fixed address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

network

network

The network to which this IPv6 fixed address belongs, in IPv6 Address/CIDR format.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

network_view

network_view

The name of the network view in which this IPv6 fixed address resides.

Type

String.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

preferred_lifetime

The preferred lifetime value for this DHCP IPv6 fixed address object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

reserved_interface

reserved_interface

The reference to the reserved interface to which the device belongs.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

restart_if_needed

`restart_if_needed`

Restarts the member service. The restart_if_needed flag can trigger a restart on DHCP services only when it is enabled on CP member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

snmp3_credential

`snmp3_credential`

The SNMPv3 credential for this IPv6 fixed address.

Type

A/An SNMP v3 Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

snmp_credential

`snmp_credential`

The SNMPv1 or SNMPv2 credential for this IPv6 fixed address.

Type

A/An SNMP Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

template

`template`

If set on creation, the IPv6 fixed address will be created according to the values specified in the named template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

use_cli_credentials

`use_cli_credentials`

If set to true, the CLI credential will override member-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name

`use_domain_name`

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

use_domain_name_servers

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

use_enable_ddns

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_options

use_ms_options

Use flag for: ms_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp3_credential

`use_snmp3_credential`

Determines if the SNMPv3 credential should be used for the IPv6 fixed address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp_credential

`use_snmp_credential`

If set to true, SNMP credential will override member level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

The valid lifetime value for this DHCP IPv6 Fixed Address object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

'~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

‘=’ (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)

‘=’ (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)

‘=’ (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: “TCP: 21,22,23 UDP: 137,139”. Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address_type	String	N	N	N	=
allow_telnet	Bool	N	N	N	N/A
always_update_dns	Bool	N	N	N	N/A
cli_credentials	[struct]	N	N	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
device_description	String	N	N	N	: = ~
device_location	String	N	N	N	: = ~
device_type	String	N	N	N	: = ~
device_vendor	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
disable_discovery	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A

discovered_data	struct	N	Y	N	N/A
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
duid	String	Y*	N	Y	= ~
enable_ddns	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv6addr	String	Y*	N	Y	= ~
ipv6prefix	String	Y*	N	N	= ~
ipv6prefix_bits	Unsigned int	Y*	N	N	=
logic_filter_rules	[struct]	N	N	N	N/A
mac_address	String	Y*	N	Y	= ~
match_client	String	N	N	N	=
ms_ad_user_data	struct	N	Y	N	N/A
ms_iaid	Unsigned int	N	N	N	N/A
ms_options	[struct]	N	N	N	N/A
ms_server	struct	N	N	N	=
name	String	N	N	N	N/A
network	String	N	N	N	= ~
network_view	String	N	N	Y	=
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
reserved_interface	String	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
snmp3_credential	struct	N	N	N	N/A
snmp_credential	struct	N	N	N	N/A
template	String	N	N	N	N/A
use_cli_credentials	Bool	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_ms_options	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_snmp3_credential	Bool	N	N	N	N/A
use_snmp_credential	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~

discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~

discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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Previous topic

ipv6fixedaddress : DHCP IPv6 Fixed Address object.

Next topic

ipv6network : DHCP IPv6Network object.

ipv6fixedaddresstemplate : The IPv6 fixed address template object.

The IPv6 fixed address template used to create IPv6 fixed address objects in a quick and consistent way. An IPv6 fixed address object created from an IPv6 fixed address template will inherit most properties defined in the IPv6 fixed address template object; therefor, most of the IPv6 fixed address template properties are the same as the fixed address object properties.

Object Reference

References to ipv6fixedaddresstemplate are object references.

The *name* part of an IPv6 DHCP Fixed Address template object reference has the following components:

- Name of the IPv6 fixed address template

Example (using _ref or UUID):

```
# Using _ref
ipv6fixedaddresstemplate/ZG5zLmJpbmRfY25h:template_name

# Using UUID
ipv6fixedaddresstemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes

name

comment

`comment`

A descriptive comment of an IPv6 fixed address template object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

domain_name

`domain_name`

Domain name of the IPv6 fixed address template object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

`domain_name_servers`

The IPv6 addresses of DNS recursive name servers to which the DHCP client can send name resolution requests. The DHCP server includes this information in the DNS Recursive Name Server option in Advertise, Rebind, Information-Request, and Reply messages.

Type

String array.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

logic_filter_rules

logic_filter_rules

This field contains the logic filters to be applied to this IPv6 fixed address.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

name

name

Name of an IPv6 fixed address template object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

number_of_addresses

number_of_addresses

The number of IPv6 addresses for this fixed address.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

offset

offset

The start address offset for this IPv6 fixed address.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

`preferred_lifetime`

The preferred lifetime value for this DHCP IPv6 fixed address template object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

use_domain_name

`use_domain_name`

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

`use_domain_name_servers`

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

The valid lifetime value for this DHCP IPv6 fixed address template object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
logic_filter_rules	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
number_of_addresses	Unsigned int	N	N	N	N/A
offset	Unsigned int	N	N	N	N/A
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

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ipv6network : DHCP IPv6Network object.

When DHCP services are configured on an appliance, the network that it serves must be defined. After a network is created, you can either create all the subnets individually, or create a parent network that encompasses the subnets.

Object Reference

References to ipv6network are object references. The *name* part of a network object reference has the following components:

- FQDN of the network
- CIDR for the network
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref ipv6network/5ldHdvcmskMTEuMC4:abcd%3A%3A/80/external

# Using UUID ipv6network/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, network, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
network	

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The auto_create_reversezone cannot be updated.

auto_create_reversezone is not readable.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for the network; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_enable_option_fqdn

`ddns_enable_option_fqdn`

Use this method to set or retrieve the ddns_enable_option_fqdn flag of a DHCP IPv6 Network object. This method controls whether the FQDN option sent by the client is to be used, or if the server can automatically generate the FQDN. This setting overrides the upper-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_enable_option_fqdn is associated with the field use_ddns_enable_option_fqdn (see use flag).

ddns_generate_hostname

`ddns_generate_hostname`

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP clients requests. Note that changes for this field take effect only if ddns_enable_option_fqdn is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of a DHCP network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

delete_reason

`delete_reason`

The reason for deleting the RIR registration request.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

delete_reason is not readable.

disable

`disable`

Determines whether a network is disabled or not. When this is set to False, the network is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

Discover now status for this network.

Type

String.

Valid values are:

- COMPLETE

- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_bgp_as

`discovered_bgp_as`

Number of the discovered BGP AS.

When multiple BGP autonomous systems are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_bgp_as cannot be updated.

discovered_bgp_as cannot be written.

discovered_bridge_domain

`discovered_bridge_domain`

Discovered bridge domain.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

discovered_tenant

`discovered_tenant`

Discovered tenant.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

discovered_vlan_id

`discovered_vlan_id`

The identifier of the discovered VLAN.

When multiple VLANs are discovered in the network, this field displays "Multiple".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The discovered_vlan_id cannot be updated.

discovered_vlan_id cannot be written.

discovered_vlan_name

`discovered_vlan_name`

The name of the discovered VLAN.

When multiple VLANs are discovered in the network, this field displays "Multiple".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The discovered_vlan_name cannot be updated.

discovered_vlan_name cannot be written.

discovered_vrf_description

`discovered_vrf_description`

Description of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_vrf_description cannot be updated.

discovered_vrf_description cannot be written.

discovered_vrf_name

`discovered_vrf_name`

The name of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_vrf_name cannot be updated.

discovered_vrf_name cannot be written.

discovered_vrf_rd

`discovered_vrf_rd`

Route distinguisher of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The discovered_vrf_rd cannot be updated.

discovered_vrf_rd cannot be written.

discovery_basic_poll_settings

`discovery_basic_poll_settings`

The discovery basic poll settings for this network.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

`discovery_blackout_setting`

The discovery blackout setting for this network.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_engine_type

`discovery_engine_type`

The network discovery engine type.

Type

String.

Valid values are:

- NETMRI
- NETWORK_INSIGHT
- NONE
- UNKNOWN
- VDISCOVERY

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_engine_type cannot be updated.

discovery_engine_type cannot be written.

discovery_member

`discovery_member`

The member that will run discovery for this network.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

domain_name

`domain_name`

Use this method to set or retrieve the domain_name value of a DHCP IPv6 Network object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

`domain_name_servers`

Use this method to set or retrieve the dynamic DNS updates flag of a DHCP IPv6 Network object. The DHCP server can send DDNS updates to DNS servers in the same Grid and to external DNS servers. This setting overrides the member level settings.

Type

String array.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP IPv6 network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_discovery

`enable_discovery`

Determines whether a discovery is enabled or not for this network. When this is set to False, the network discovery is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_ifmap_publishing

`enable_ifmap_publishing`

Determines if IFMAP publishing is enabled for the network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ifmap_publishing is associated with the field use_enable_ifmap_publishing (see use flag).

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the network should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

endpoint_sources

`endpoint_sources`

The endpoints that provides data for the DHCP IPv6 Network object.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

federated_realms

`federated_realms`

This field contains the federated realms associated to this network

Type

A/An Federated Realms struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

last_rir_registration_update_sent

`last_rir_registration_update_sent`

The timestamp when the last RIR registration update was sent.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_rir_registration_update_sent cannot be updated.

last_rir_registration_update_sent cannot be written.

last_rir_registration_update_status

`last_rir_registration_update_status`

Last RIR registration update status.

Type

String.

Search

The field is not available for search.

Notes

The last_rir_registration_update_status cannot be updated.

last_rir_registration_update_status cannot be written.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on this IPv6 network.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

members

`members`

A list of members servers that serve DHCP for the network.

All members in the array must be of the same type. The struct type must be indicated in each element, by setting the “_struct” member to the struct type.

Type

One of the following: Grid member serving DHCP struct, MS DHCP server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

mgm_private is associated with the field use_mgm_private (see use flag).

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

network

The network address in IPv6 Address/CIDR format. For regular expression searches, only the IPv6 Address portion is supported. Searches for the CIDR portion is always an exact match.

For example, both network containers 16::0/28 and 26::0/24 are matched by expression '.6' and only 26::0/24 is matched by '.6/24'.

Type

String.

The field also supports automatic selection of the next available network with selected CIDR in the specified IPv6 network or network container. You can specify the IPv6 network or network container in the following ways:

Using a IPv6 network or network container WAPI reference:

- func:nextavailablenetwork:<reference>,<CIDR>

Using a IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailablenetwork:<network>[,<network view>],<CIDR>

Scheduled and approval operations are not supported when using the automatic network selection.

If you specify a network view for automatic network selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic network selection is not used for the actual object insertion.

If the grid has multiple network views, it is recommended to specify the network view information in the input data when calling the next_available_network function and also specify the same network view for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablenetwork:ipv6network/ZG54dfgsrDFEFfsfsLzA:1000::/8/default,16
- func:nextavailablenetwork:1000::/8,16
- func:nextavailablenetwork:1000::/8,external,16

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_network function call in object ipv6network (default parameters: **{'num': 1}**)
- the next_available_network function call in object ipv6networkcontainer (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_container

network_container

The network container to which this network belongs, if any.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_container cannot be updated.

network_container cannot be written.

network_view

network_view

The name of the network view in which this network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

port_control_blackout_setting

port_control_blackout_setting

The port control blackout setting for this network.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting (see use flag).

preferred_lifetime

`preferred_lifetime`

Use this method to set or retrieve the preferred lifetime value of a DHCP IPv6 Network object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

recycle_leases

`recycle_leases`

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rir

`rir`

The registry (RIR) that allocated the IPv6 network address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

`rir_organization`

The RIR organization associated with the IPv6 network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The RIR registration action.

Type

String.

Valid values are:

- CREATE
- DELETE
- MODIFY
- NONE

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

rir_registration_action is not readable.

rir_registration_status

`rir_registration_status`

The registration status of the IPv6 network in RIR.

Type

String.

Valid values are:

- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field use_blackout_setting (see use flag).

send_rir_request

`send_rir_request`

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

send_rir_request is not readable.

subscribe_settings

`subscribe_settings`

The DHCP IPv6 Network Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

template

`template`

If set on creation, the network is created according to the values specified in the selected template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

unmanaged

`unmanaged`

Determines whether the DHCP IPv6 Network is unmanaged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

unmanaged_count

`unmanaged_count`

The number of unmanaged IP addresses as discovered by network discovery.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The unmanaged_count cannot be updated.

unmanaged_count cannot be written.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_blackout_setting

`use_blackout_setting`

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_enable_option_fqdn

`use_ddns_enable_option_fqdn`

Use flag for: ddns_enable_option_fqdn

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

`use_ddns_ttl`

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

`use_discovery_basic_polling_settings`

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name

`use_domain_name`

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

`use_domain_name_servers`

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

`use_enable_discovery`

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ifmap_publishing

`use_enable_ifmap_publishing`

Use flag for: enable_ifmap_publishing

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgm_private

`use_mgm_private`

Use flag for: mgm_private

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

use_subscribe_settings

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

use_update_dns_on_lease_renewal

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

use_valid_lifetime

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_zone_associations

use_zone_associations

Use flag for: zone_associations

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

valid_lifetime

Use this method to set or retrieve the valid lifetime value of a DHCP IPv6 Network object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

vlans

vlans

List of VLANs assigned to Network.

Type

A/An VLAN link struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

zone_associations

zone_associations

The list of zones associated with this network.

Type

A/An Zone association struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

zone_associations is associated with the field use_zone_associations (see use flag).

Function Calls

expand_network

This function reduces the subnet mask of a network, joining all networks that fall under it. All the ranges and fixed addresses of the original networks are reparented to the new joined network. Any network containers that fall inside the bounds of the joined network are removed. The member assignments of all the encompassed networks are joined together. The default router and subnet mask overridden from the joined network, including all the ranges and fixed addresses, are all removed.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones.

option_delete_ea (String. Valid values are: “RETAIN”, “REMOVE”) The option to be applied on deleted networks with existing extensible attribute.

prefix (Unsigned integer.). This parameter is mandatory. The netmask of the networks after the expand operation.

Output fields

network (String.) The reference to the resulting network that is created after the expand operation.

next_available_ip

This function retrieves the next available IP in the network.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of IP addresses to exclude.

num (Unsigned integer.) The number of IP addresses you are requesting.

Output fields

ips (String array.) The requested IP addresses.

next_available_network

This function will retrieve the next available network in the network

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

cidr (Unsigned integer.) The CIDR of the requested network(s). This is a required parameter.

exclude (String array.) An array of networks you want to exclude from the results.

num (Unsigned integer.) The number of networks you are requesting.

Output fields

networks (String array.) The requested network(s).

next_available_vlan

This function retrieves the next available VLANs for network to assign by given VLAN View/Range as parent.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of VLAN IDs to exclude.

num (Unsigned integer.) The number of VLANs you are requesting.

Output fields

vlans (A/An vlan object array.) The requested VLANs. The default value is “[]”.

split_network

This function will split the current network into multiple smaller networks.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

add_all_subnetworks (Bool.) If this flag is True, all possible subnets are added. Otherwise, only networks with fixed addresses are added.

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones for the subnets.

inherit_attributes (Bool.) Determines if the extensible attributes for the pre-split network will be inherited by the resulting networks.

prefix (Unsigned integer.). This parameter is mandatory. The appropriate subnet mask for each subnet created after splitting the network.

prefix_collector_ipv6_network_addr (String.) The address of a network that contains the DHCP IPv6FixedAddress and IPv6Range objects, whose address_type is ‘PREFIX’ after the network is split.

Output fields

None

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

contains_address

`contains_address`

When specified in searches, the returned network is the smallest network that contains this IPv6 Address.

If specified, all other search attributes are ignored, except for network_view.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

contains_address is a search-only field.

shared_network_name

`shared_network_name`

Use this method to retrieve the name of the shared network associated with the DHCP IPv6 Network object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

shared_network_name is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
auto_create_reversezone	Bool	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_enable_option_fqdn	Bool	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
delete_reason	String	N	N	N	N/A
disable	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovered_bgp_as	String	N	Y	N	: = ~

discovered_bridge_domain	String	N	N	N	: = ~
discovered_tenant	String	N	N	N	: = ~
discovered_vlan_id	String	N	Y	N	: = ~
discovered_vlan_name	String	N	Y	N	: = ~
discovered_vrf_description	String	N	Y	N	: = ~
discovered_vrf_name	String	N	Y	N	: = ~
discovered_vrf_rd	String	N	Y	N	: = ~
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_engine_type	String	N	Y	N	=
discovery_member	String	N	N	N	N/A
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_ifmap_publishing	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
endpoint_sources	[obj]	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
federated_realms	[struct]	N	N	N	N/A
last_rir_registration_update_sent	Timestamp	N	Y	N	N/A
last_rir_registration_update_status	String	N	Y	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
members	[struct]	N	N	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	Y	N	Y	= ~
network_container	String	N	Y	N	=
network_view	String	N	N	Y	=
options	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
rir	String	N	Y	N	=
rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
subscribe_settings	struct	N	N	N	N/A
template	String	N	N	N	N/A
unmanaged	Bool	N	N	N	=
unmanaged_count	Unsigned int	N	Y	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_enable_option_fqdn	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A

use_enable_ifmap_publishing	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_mgm_private	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
use_zone_associations	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A
vlans	[struct]	N	N	N	N/A
zone_associations	[struct]	N	N	N	N/A

Search-only Fields List

Field	Type	Search
contains_address	String	=
shared_network_name	String	=

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ipv6networkcontainer : DHCP IPv6NetworkContainer object.

A network can contain child networks. The network that contains child networks is called a network container. This object encapsulates an IPv6 network container object.

Object Reference

References to ipv6networkcontainer are object references. The *name* part of a nc object reference has the following components:

- Address of the network container
- CIDR for the network container
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref ipv6networkcontainer/5ldHdvcmskMTEuMC4:abcd%3A%3A/80/external

# Using UUID ipv6networkcontainer/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, network, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
network	

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The auto_create_reversezone cannot be updated.

auto_create_reversezone is not readable.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for the network; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network container.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_enable_option_fqdn

`ddns_enable_option_fqdn`

Use this method to set or retrieve the ddns_enable_option_fqdn flag of a DHCP IPv6 Network Container object. This method controls whether the FQDN option sent by the client is to be used, or if the server can automatically generate the FQDN. This setting overrides the upper-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_enable_option_fqdn is associated with the field use_ddns_enable_option_fqdn (see use flag).

ddns_generate_hostname

`ddns_generate_hostname`

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether the DHCP server is allowed to update DNS, regardless of the DHCP client requests. Note that changes for this field take effect only if ddns_enable_option_fqdn is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

ddns_ttl

The DNS update Time to Live (TTL) value of a DHCP network container object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

delete_reason

delete_reason

The reason for deleting the RIR registration request.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

delete_reason is not readable.

discover_now_status

discover_now_status

Discover now status for this network container.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovery_basic_poll_settings

`discovery_basic_poll_settings`

The discovery basic poll settings for this network container.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

`discovery_blackout_setting`

The discovery blackout setting for this network container.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_engine_type

`discovery_engine_type`

The network discovery engine type.

Type

String.

Valid values are:

- NETMRI
- NETWORK_INSIGHT
- NONE
- UNKNOWN
- VDISCOVERY

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_engine_type cannot be updated.

discovery_engine_type cannot be written.

discovery_member

`discovery_member`

The member that will run discovery for this network container.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

domain_name_servers

`domain_name_servers`

Use this method to set or retrieve the dynamic DNS updates flag of a DHCP IPv6 Network Container object. The DHCP server can send DDNS updates to DNS servers in the same Grid and to external DNS servers. This setting overrides the member level settings.

Type

String array.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP IPv6 network container object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_discovery

`enable_discovery`

Determines whether a discovery is enabled or not for this network container. When this is set to False, the network container discovery is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the network container should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

endpoint_sources

`endpoint_sources`

The endpoints that provides data for the DHCP IPv6 Network Container.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

federated_realms

`federated_realms`

This field contains the federated realms associated to this network container.

Type

A/An Federated Realms struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

last_rir_registration_update_sent

last_rir_registration_update_sent

The timestamp when the last RIR registration update was sent.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_rir_registration_update_sent cannot be updated.

last_rir_registration_update_sent cannot be written.

last_rir_registration_update_status

last_rir_registration_update_status

Last RIR registration update status.

Type

String.

Search

The field is not available for search.

Notes

The last_rir_registration_update_status cannot be updated.

last_rir_registration_update_status cannot be written.

logic_filter_rules

logic_filter_rules

This field contains the logic filters to be applied on the this network container.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

mgm_private

mgm_private

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is

set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

mgm_private is associated with the field use_mgm_private (see use flag).

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network address in IPv6 Address/CIDR format. For regular expression searches, only the IPv6 Address portion is supported. Searches for the CIDR portion is always an exact match.

For example, both network containers 16::0/28 and 26::0/24 are matched by expression '.6' and only 26::0/24 is matched by '.6/24'.

Type

String.

The field also supports automatic selection of the next available network with selected CIDR in the specified IPv6 network or network container. You can specify the IPv6 network or network container in the following ways:

Using a IPv6 network or network container WAPI reference:

- func:nextavailablenetwork:<reference>,<CIDR>

Using a IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailablenetwork:<network>[,<network view>],<CIDR>

Scheduled and approval operations are not supported when using the automatic network selection.

If you specify a network view for automatic network selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic network selection is not used for the actual object insertion.

If the grid has multiple network views, it is recommended to specify the network view information in the input data when calling the next_available_network function and also specify the same network view for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablenetwork:ipv6network/ZG54dfgsrDFEFfsfsLzA:1000::/8/default,16
- func:nextavailablenetwork:1000::/8,16
- func:nextavailablenetwork:1000::/8,external,16

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_network function call in object ipv6networkcontainer (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_container

`network_container`

The network container to which this network belongs, if any.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_container cannot be updated.

network_container cannot be written.

network_view

`network_view`

The name of the network view in which this network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

port_control_blackout_setting

`port_control_blackout_setting`

The port control blackout setting for this network container.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting (see use flag).

preferred_lifetime

`preferred_lifetime`

Use this method to set or retrieve the preferred lifetime value of a DHCP IPv6 Network Container object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rir

`rir`

The registry (RIR) that allocated the IPv6 network container address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

`rir_organization`

The RIR organization associated with the IPv6 network container.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The RIR registration action.

Type

String.

Valid values are:

- CREATE
- DELETE
- MODIFY
- NONE

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

rir_registration_action is not readable.

rir_registration_status

`rir_registration_status`

The registration status of the IPv6 network container in RIR.

Type

String.

Valid values are:

- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field use_blackout_setting (see use flag).

send_rir_request

`send_rir_request`

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

send_rir_request is not readable.

subscribe_settings

`subscribe_settings`

The DHCP IPv6 Network Container Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

unmanaged

unmanaged

Determines whether the network container is unmanaged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

update_dns_on_lease_renewal

update_dns_on_lease_renewal

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_blackout_setting

use_blackout_setting

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

use_ddns_domainname

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_enable_option_fqdn

use_ddns_enable_option_fqdn

Use flag for: ddns_enable_option_fqdn

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

use_ddns_generate_hostname

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

use_ddns_ttl

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

use_discovery_basic_polling_settings

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

`use_domain_name_servers`

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

`use_enable_discovery`

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgm_private

use_mgm_private

Use flag for: mgm_private

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

use_preferred_lifetime

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

`use_subscribe_settings`

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_zone_associations

`use_zone_associations`

Use flag for: zone_associations

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

utilization

`utilization`

The network container utilization in percentage.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The utilization cannot be updated.

utilization cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

Use this method to set or retrieve the valid lifetime value of a DHCP IPv6 Network Container object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

zone_associations

zone_associations

The list of zones associated with this network container.

Type

A/An Zone association struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

zone_associations is associated with the field use_zone_associations (see use flag).

Function Calls

next_available_network

This function will retrieve the next available network in the network container.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

cidr (Unsigned integer.) The CIDR of the requested network(s). This is a required parameter.

exclude (String array.) An array of networks you want to exclude from the results.

num (Unsigned integer.) The number of networks you are requesting.

Output fields

networks (String array.) The requested network(s).

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

remove_subnets

remove_subnets

Remove subnets delete option. Determines whether all child objects should be removed alongside with the IPv6 network container or child objects should be assigned to another parental container. By default child objects are deleted with this network container.

Type

Bool.

Notes

remove_subnets is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
auto_create_reversezone	Bool	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_enable_option_fqdn	Bool	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
delete_reason	String	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_engine_type	String	N	Y	N	=
discovery_member	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
endpoint_sources	[obj]	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
federated_realms	[struct]	N	N	N	N/A
last_rir_registration_update_sent	Timestamp	N	Y	N	N/A
last_rir_registration_update_status	String	N	Y	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	Y	N	Y	= ~
network_container	String	N	Y	N	=
network_view	String	N	N	Y	=
options	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
rir	String	N	Y	N	=
rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
subscribe_settings	struct	N	N	N	N/A
unmanaged	Bool	N	N	N	=
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_enable_option_fqdn	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A

use_mgm_private	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
use_zone_associations	Bool	N	N	N	N/A
utilization	Unsigned int	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A
zone_associations	[struct]	N	N	N	N/A

Delete Arguments List

Argument	Type
remove_subnets	Bool

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ipv6networktemplate : DHCP IPv6 network template object.

The IPv6 network template used to create IPv6 networks in a quick and consistent way. IPv6 networks created from an IPv6 network template inherit all the properties defined in the IPv6 network template, except for the comment and CIDR that can be defined in the IPv6 network.

Object Reference

References to ipv6networktemplate are object references. The *name* part of a IPv6 network template object reference has the following components:

- Name of the IPv6 network template

Example (using _ref or UUID):

```
# Using _ref
ipv6networktemplate/5ldHdvcmskMTEuMC4:abcd%3A%3A/80/external

# Using UUID
ipv6networktemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
cidr	Field cidr is required if allow_any_netmask is False.
name	

allow_any_netmask

`allow_any_netmask`

This flag controls whether the template allows any netmask. You must specify a netmask when creating a network using this template. If you set

this parameter to False, you must specify the “cidr” field for the network template object.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

cidr

`cidr`

The CIDR of the network in CIDR format.

Type

Unsigned integer.

Create

Field cidr is required if allow_any_netmask is False.

Search

The field is not available for search.

cloud_api_compatible

`cloud_api_compatible`

This flag controls whether this template can be used to create network objects in a cloud-computing deployment.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

`comment`

Comment for the network; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_enable_option_fqdn

ddns_enable_option_fqdn

Use this method to set or retrieve the ddns_enable_option_fqdn flag of a DHCP IPv6 Network object. This method controls whether the FQDN option sent by the client is to be used, or if the server can automatically generate the FQDN. This setting overrides the upper-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_enable_option_fqdn is associated with the field use_ddns_enable_option_fqdn (see use flag).

ddns_generate_hostname

ddns_generate_hostname

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

ddns_server_always_updates

This field controls whether the DHCP server is allowed to update DNS,

regardless of the DHCP client requests. Note that changes for this field take effect only if ddns_enable_option_fqdn is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of a DHCP network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

delegated_member

`delegated_member`

Reference the Cloud Platform Appliance to which authority of the object should be delegated when the object is created using the template.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is not available for search.

domain_name

`domain_name`

Use this method to set or retrieve the domain_name value of a DHCP IPv6 Network object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

`domain_name_servers`

Use this method to set or retrieve the dynamic DNS updates flag of a DHCP IPv6 Network object. The DHCP server can send DDNS updates to DNS servers in the same Grid and to external DNS servers. This setting overrides the member level settings.

Type

String array.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

enable_ddns

enable_ddns

The dynamic DNS updates flag of a DHCP IPv6 network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fixed_address_templates

fixed_address_templates

The list of IPv6 fixed address templates assigned to this IPv6 network template object. When you create an IPv6 network based on an IPv6 network template object that contains IPv6 fixed address templates, the IPv6 fixed addresses are created based on the associated IPv6 fixed address templates.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6prefix

`ipv6prefix`

The IPv6 Address prefix of the DHCP IPv6 network.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on this IPv6 network template.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

members

`members`

A list of members that serve DHCP for the network.

All members in the array must be of the same type. The struct type must be indicated in each element, by setting the “_struct” member to the struct type.

Type

One of the following: Grid member serving DHCP struct, MS DHCP server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

name

The name of this IPv6 network template.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

`preferred_lifetime`

Use this method to set or retrieve the preferred lifetime value of a DHCP IPv6 Network object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

range_templates

`range_templates`

The list of IPv6 address range templates assigned to this IPv6 network template object. When you create an IPv6 network based on an IPv6 network template object that contains IPv6 range templates, the IPv6 address ranges are created based on the associated IPv6 address range templates.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

recycle_leases

recycle_leases

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

rir

rir

The registry (RIR) that allocated the IPv6 network address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

rir_organization

The RIR organization associated with the IPv6 network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The action for the RIR registration.

Type

String.

Valid values are:
- CREATE
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

rir_registration_status

`rir_registration_status`

The registration status of the IPv6 network in RIR.

Type

String.

Valid values are:
- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

send_rir_request

send_rir_request

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

update_dns_on_lease_renewal

update_dns_on_lease_renewal

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_ddns_domainname

use_ddns_domainname

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_enable_option_fqdn

use_ddns_enable_option_fqdn

Use flag for: ddns_enable_option_fqdn

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

use_ddns_generate_hostname

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

use_ddns_ttl

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name

use_domain_name

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

`use_domain_name_servers`

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

use_update_dns_on_lease_renewal

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

use_valid_lifetime

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

Use this method to set or retrieve the valid lifetime value of a DHCP IPv6 Network object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Fields List

Field	Type	Req	R/O	Base	Search
allow_any_netmask	Bool	N	N	N	N/A
auto_create_reversezone	Bool	N	N	N	N/A
cidr	Unsigned int	Y*	N	N	N/A
cloud_api_compatible	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_enable_option_fqdn	Bool	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
delegated_member	struct	N	N	N	N/A
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
fixed_address_templates	[String]	N	N	N	N/A
ipv6prefix	String	N	N	N	= ~
logic_filter_rules	[struct]	N	N	N	N/A
members	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
range_templates	[String]	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
rir	String	N	Y	N	=

rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_enable_option_fqdn	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

* Required in some cases, see detailed field description above.

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ipv6range : DHCP IPv6 Range object.

A DHCP IPv6 range defines the specified range of IP addresses in an IPv6 network. A DHCP IPv6 range should be added for an IPv6 network so the Infoblox appliance can assign IP addresses within that specified range to DHCP clients. If the client is on an IPv6 network that is assigned a DHCP IPv6 range, the device distributes an available IP address from that range to the DHCP client, or to a DHCP relay agent if the request came through an agent. The DHCP IPv6 range should also be assigned with a device. If devices are in a grid, the particular member serving DHCP for the DHCP IPv6 range must be specified. If the server is an independent device, this device must be specified as the member that serves the DHCP IPv6 range.

Object Reference

References to ipv6range are object references. The *name* part of a DHCP IPv6 Range object reference has the following components:

- Start address of the range
- End address of the range
- Name of the view

Example (using _ref or UUID):

```
# Using _ref ipv6range/ZG5zLmJpbmRfY25h:abcd::1/abcd::10/external

# Using UUID ipv6range/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, end_addr, network, network_view, start_addr, uuid**.

The following fields are required to create this object:

Field	Notes
end_addr	The field is required if address_type is ADDRESS/BOTH.
ipv6_end_prefix	The field is required if address_type is PREFIX/BOTH.
ipv6_prefix_bits	The field is required if address_type is PREFIX/BOTH.
ipv6_start_prefix	The field is required if address_type is PREFIX/BOTH.
network	
start_addr	The field is required if address_type is ADDRESS/BOTH.

address_type

address_type

Type of a DHCP IPv6 Range object. Valid values are “ADDRESS”, “PREFIX”, or “BOTH”. When the address type is “ADDRESS”, values for the ‘start_addr’ and ‘end_addr’ members are required. When the address type is “PREFIX”, values for ‘ipv6_start_prefix’, ‘ipv6_end_prefix’, and ‘ipv6_prefix_bits’ are required. When the address type is “BOTH”, values for ‘start_addr’, ‘end_addr’, ‘ipv6_start_prefix’, ‘ipv6_end_prefix’, and ‘ipv6_prefix_bits’ are all required.

Type

String.

Create

The default value is *ADDRESS*.

Search

The field is available for search via

- ‘=’ (exact equality)

always_update_dns

`always_update_dns`

This field controls whether only the DHCPv6 server is allowed to update DNS, regardless of the DHCPv6 client requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for the range; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether a range is disabled or not. When this is set to False, the range is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

Discover now status for this range.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovery_basic_poll_settings

`discovery_basic_poll_settings`

The discovery basic poll settings for this range.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

`discovery_blackout_setting`

The discovery blackout setting for this range.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_member

`discovery_member`

The member that will run discovery for this range.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP IPv6 range object. If set to True, the DHCPv6 server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_discovery

`enable_discovery`

Determines whether a discovery is enabled or not for this range. When this is

set to False, the discovery for this range is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the range should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

end_addr

`end_addr`

The IPv6 Address end address of the DHCP IPv6 range.

Type

String.

Create

The field is required if address_type is ADDRESS/BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The end_addr is part of the base object.

endpoint_sources

`endpoint_sources`

The endpoints that provides data for the DHCP IPv6 Range object.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

exclude

`exclude`

These are ranges of IP addresses that the appliance does not use to assign to clients. You can use these exclusion addresses as static IP addresses. They contain the start and end addresses of the exclusion range, and optionally,information about this exclusion range.

Type

A/An Exclusion range struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6_end_prefix

`ipv6_end_prefix`

The IPv6 Address end prefix of the DHCP IPv6 range.

Type

String.

Create

The field is required if address_type is PREFIX/BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

ipv6_prefix_bits

`ipv6_prefix_bits`

Prefix bits of the DHCP IPv6 range.

Type

Unsigned integer.

Create

The field is required if address_type is PREFIX/BOTH.

Search

The field is available for search via

- '=' (exact equality)

ipv6_start_prefix

`ipv6_start_prefix`

The IPv6 Address starting prefix of the DHCP IPv6 range.

Type

String.

Create

The field is required if address_type is PREFIX/BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied to this IPv6 range. This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

member

`member`

The member that will provide service for this range.

server_association_type needs to be set to 'MEMBER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with :ref: *Dhcp Member structure<struct:dhcpmember>* and the request should have option _method=GET.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

ms_options

ms_options

This field contains the Microsoft DHCP options for this IPv6 range.

Type

A/An Microsoft DHCP Options struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ms_options is associated with the field use_ms_options (see use flag).

ms_preference

ms_preference

This field contains the MS preference for this IPv6 Range.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

ms_server

ms_server

The Microsoft server that will provide service for this range.

server_association_type needs to be set to 'MS_SERVER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with MS DHCP server structure and the request should have option _method=GET.

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

This field contains the name of the Microsoft scope.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

network

`network`

The network this range belongs to, in IPv6 Address/CIDR format.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_view

`network_view`

The name of the network view in which this range resides.

Type

String.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

option_filter_rules

`option_filter_rules`

This field contains the Option filters to be applied to this IPv6 range. The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

port_control_blackout_setting

`port_control_blackout_setting`

The port control blackout setting for this range.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting (see use flag).

preferred_lifetime

`preferred_lifetime`

This field contains the IPv6 preferred lifetime.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

recycle_leases

`recycle_leases`

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field use_blackout_setting (see use flag).

server_association_type

`server_association_type`

The type of server that is going to serve the range.

Type

String.

Valid values are:

- MEMBER
- MS_SERVER
- NONE

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

start_addr

start_addr

The IPv6 Address starting address of the DHCP IPv6 range.

Type

String.

Create

The field is required if address_type is ADDRESS/BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The start_addr is part of the base object.

subscribe_settings

subscribe_settings

The DHCP IPv6 Range Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

template

template

If set on creation, the range will be created according to the values specified in the named template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

use_blackout_setting

`use_blackout_setting`

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

`use_discovery_basic_polling_settings`

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

use_enable_discovery

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_options

use_ms_options

Use flag for: ms_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

use_preferred_lifetime

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

`use_subscribe_settings`

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

This field contains the IPv6 valid lifetime.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Function Calls

next_available_ip

This function retrieves the next available IP in the range.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of IP addresses to exclude.

num (Unsigned integer.) The number of IP addresses you are requesting.

Output fields

ips (String array.) The requested IP addresses.

Fields List

Field	Type	Req	R/O	Base	Search
address_type	String	N	N	N	=
always_update_dns	Bool	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_member	String	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
end_addr	String	Y*	N	Y	= ~
endpoint_sources	[obj]	N	Y	N	N/A
exclude	[struct]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv6_end_prefix	String	Y*	N	N	= ~
ipv6_prefix_bits	Unsigned int	Y*	N	N	=
ipv6_start_prefix	String	Y*	N	N	= ~
logic_filter_rules	[struct]	N	N	N	N/A
member	struct	N	N	N	=
ms_options	[struct]	N	N	N	N/A
ms_preference	Unsigned int	N	N	N	N/A
ms_server	struct	N	N	N	=
name	String	N	N	N	= ~
network	String	Y	N	Y	= ~
network_view	String	N	N	Y	=
option_filter_rules	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
server_association_type	String	N	N	N	=
start_addr	String	Y*	N	Y	= ~

subscribe_settings	struct	N	N	N	N/A
template	String	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_ms_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

* Required in some cases, see detailed field description above.

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Previous topic

ipv6range : DHCP IPv6 Range object.

Next topic

ipv6sharednetwork : DHCP IPv6 Shared Network object.

ipv6rangetemplate : IPv6 DHCP Range template object.

The IPv6 range template used to create an IPv6 range object in a quick and consistent way. The DHCP IPv6 range created from the DHCP IPv6 range template will inherit the properties defined in this template.

Object Reference

References to ipv6rangetemplate are object references.

The *name* part of the IPv6 DHCP Range template object reference has the following components:

- Name of the IPv6 DHCP Range template.

Example (using _ref or UUID):

```
# Using _ref
ipv6rangetemplate/ZG5zLmJpbmRfY25h:templatename

# Using UUID
ipv6rangetemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, number_of_addresses, offset, uuid**.

The following fields are required to create this object:

Field	Notes
name	
number_of_addresses	
offset	

cloud_api_compatible

`cloud_api_compatible`

Determines whether the IPv6 DHCP range template can be used to create network objects in a cloud-computing deployment.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

`comment`

The IPv6 DHCP range template descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

delegated_member

`delegated_member`

The vConnector member that the object should be delegated to when created from the IPv6 DHCP range template. I assume that vConnector refers to VMware vConnector.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is not available for search.

exclude

`exclude`

These are ranges of IPv6 addresses that the appliance does not use to assign to clients. You can use these excluded addresses as static IPv6 addresses. They contain the start and end addresses of the excluded range, and optionally, information about this excluded range.

Type

A/An Exclusion range template struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on this IPv6 range.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```

```

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

member

member

The member that will provide service for the IPv6 DHCP range.

Set server_association_type to 'MEMBER' if you want the server specified here to serve the range. For searching by this field, use an HTTP method that contains a body (POST or PUT) with MS DHCP server structure and the request should have option _method=GET.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

name

name

Name of the IPv6 DHCP range template.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

number_of_addresses

`number_of_addresses`

The number of addresses for the IPv6 DHCP range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The number_of_addresses is part of the base object.

offset

`offset`

The start address offset for the IPv6 DHCP range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The offset is part of the base object.

option_filter_rules

option_filter_rules

This field contains the Option filters to be applied to this IPv6 range. The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

recycle_leases

recycle_leases

Determines whether the leases are kept in Recycle Bin until one week after expiry. If this is set to False, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

server_association_type

server_association_type

The type of server that is going to serve the IPv6 DHCP range.

Type

String.

Valid values are:

- FAILOVER
- MEMBER
- MS_FAILOVER
- MS_SERVER
- NONE

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_api_compatible	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
delegated_member	struct	N	N	N	N/A
exclude	[struct]	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
member	struct	N	N	N	=
name	String	Y	N	Y	: = ~
number_of_addresses	Unsigned int	Y	N	Y	N/A
offset	Unsigned int	Y	N	Y	N/A
option_filter_rules	[struct]	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
server_association_type	String	N	N	N	=
use_logic_filter_rules	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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ipv6rangetemplate : IPv6 DHCP Range template object.

Next topic

kerberoskey : Kerberos key object.

ipv6sharednetwork : DHCP IPv6 Shared Network object.

A shared network is a network segment to which you assign two or more subnets. When subnets in a shared network contain IP addresses that are available for dynamic allocation, the addresses are put into a common pool for allocation when client requests arise. When you create a shared network, the DHCP server can assign IP addresses to client requests from any subnet (that resides on the same network interface) in the shared network.

Object Reference

References to ipv6sharednetwork are object references. The *name* part of an ipv6 shared network object reference has the following components:

- The name of the ipv6 shared network.

Example (using _ref or UUID):

```
# Using _ref ipv6sharednetwork/5ldHdvcmskMTEuMC4:sharedname

# Using UUID ipv6sharednetwork/123e4567e89b12d3a456426614174000
```

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, network_view, networks, uuid**.

The following fields are required to create this object:

Field	Notes
name	
networks	

comment

`comment`

Comment for the IPv6 shared network, maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

`ddns_generate_hostname`

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP clients requests. Note that changes for this field take effect only if ddns_use_option81 is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of an IPv6 shared network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_use_option81

`ddns_use_option81`

The support for DHCP Option 81 at the IPv6 shared network level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

disable

`disable`

Determines whether an IPv6 shared network is disabled or not. When this is set to False, the IPv6 shared network is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

domain_name

`domain_name`

Use this method to set or retrieve the domain_name value of a DHCP IPv6 Shared Network object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

`domain_name_servers`

Use this method to set or retrieve the dynamic DNS updates flag of a DHCP IPv6 Shared Network object. The DHCP server can send DDNS updates to DNS servers in the same Grid and to external DNS servers. This setting overrides the member level settings.

Type

String array.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of an IPv6 shared network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

logic_filter_rules

logic_filter_rules

This field contains the logic filters to be applied on the this IPv6 shared network.

This list corresponds to the match rules that are written to the DHCPv6 configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

name

name

The name of the IPv6 Shared Network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view in which this IPv6 shared network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

networks

`networks`

A list of IPv6 networks belonging to the shared network

Each individual list item must be specified as an object containing a '_ref' parameter to a network reference, for example:

```
[{
    "_ref": "ipv6network/ZG5zdHdvcmskMTAuAvMTYvMA",
}]
```

if the reference of the wanted network is not known, it is possible to specify search parameters for the network instead in the following way:

```
[{
    "_ref": {
        'network': 'aabb::/64',
    }
}]
```

note that in this case the search must match exactly one network for the assignment to be successful.

Type

A/An ipv6network object array.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The networks is part of the base object.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

preferred_lifetime

Use this method to set or retrieve the preferred lifetime value of a DHCP IPv6 Shared Network object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

update_dns_on_lease_renewal

update_dns_on_lease_renewal

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_ddns_domainname

use_ddns_domainname

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

use_ddns_generate_hostname

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

use_ddns_ttl

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

use_ddns_use_option81

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name

use_domain_name

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

use_domain_name_servers

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

use_enable_ddns

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

Use this method to set or retrieve the valid lifetime value of a DHCP IPv6 Shared Network object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
logic_filter_rules	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
network_view	String	N	N	Y	=
networks	[obj]	Y	N	Y	N/A
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

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ipv6sharednetwork : DHCP IPv6 Shared Network object.

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ldap_auth_service : The LDAP authentication service object.

kerberoskey : Kerberos key object.

GSS-TSIG (Generic Security Service Algorithm for Secret Key Transaction) is used to authenticate DDNS updates. It is a modified form of TSIG authentication that uses Kerberos v5 authentication system.

You can configure the appliance to accept GSS-TSIG signed DDNS updates from a single client or multiple clients that belong to different AD domains in which each domain have a unique GSS-TSIG key. You can also configure the appliance to support one or multiple GSS-TSIG keys for each of Grid members.

The Kerberos key object represents the GSS-TSIG key used to authenticate clients for GSS-TSIG signed DDNS updates.

Object Reference

References to kerberoskey are object references.

The *name* part of the Kerberos key object reference has following components:

- The principal of the Kerberos key object
- The KVNO of the Kerberos key object
- The encryption type of the Kerberos key object

Example:

```
# Using _ref kerberoskey/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:PRINCIPAL1/1/DES-CBC-CRC

# Using UUID kerberoskey/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **domain, enctype, in_use, principal, uuid, version**.

domain

`domain`

The Kerberos domain name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

The domain is part of the base object.

The domain cannot be updated.

domain cannot be written.

enctype

`enctype`

The Kerberos key encryption type.

Type

String.

Valid values are:
- AES128-CTS-HMAC-SHA1-96
- AES256-CTS-HMAC-SHA1-96
- ARCFOUR-HMAC-MD5
- DES-CBC-CRC
- DES-CBC-MD5

Search

The field is available for search via

- '=' (exact equality)

Notes

The enctype is part of the base object.

The enctype cannot be updated.

enctype cannot be written.

in_use

`in_use`

Determines whether the Kerberos key is assigned to the Grid or Grid member.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The in_use is part of the base object.

The in_use cannot be updated.

in_use cannot be written.

members

`members`

The list of hostnames and services of Grid members where the key is assigned or Grid/DHCP4 or Grid/DHCP6 or Grid/DNS.

Type

String array.

Search

The field is not available for search.

Notes

The members cannot be updated.

members cannot be written.

principal

`principal`

The principal of the Kerberos key object.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The principal is part of the base object.

The principal cannot be updated.

principal cannot be written.

upload_timestamp

`upload_timestamp`

The timestamp of the Kerberos key upload operation.

Type

Timestamp.

Search

The field is not available for search.

Notes

The upload_timestamp cannot be updated.

upload_timestamp cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

The Kerberos key version number (KVNO).

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)
- '!=' (negative search)

Notes

The version is part of the base object.

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
domain	String	N	Y	Y	: = ~
enctype	String	N	Y	Y	=
in_use	Bool	N	Y	Y	=
members	[String]	N	Y	N	N/A
principal	String	N	Y	Y	: = ~
upload_timestamp	Timestamp	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
version	Unsigned int	N	Y	Y	! < = >

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kerberoskey : Kerberos key object.

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lease : DHCP Lease object.

ldap_auth_service : The LDAP authentication service object.

LDAP (Lightweight Directory Access Protocol) is an internet protocol for accessing distributed directory services. The appliance can authenticate admin accounts by verifying user names and passwords against LDAP. This object is used to configure the LDAP authentication service.

Object Reference

References to ldap_auth_service are object references.

The *name* part of the LDAP authentication service object has following components:

- The name of the LDAP authentication service

Example:

```
# Using _ref
ldap_auth_service/ZG5zLm5ldHdvcmtfdmlldyQxMTk:LDAPAuth

# Using UUID
ldap_auth_service/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disable, ldap_user_attribute, mode, name, uuid**.

The following fields are required to create this object:

Field	Notes
ldap_user_attribute	
name	
recovery_interval	
retries	
servers	

comment

`comment`

The LDAP descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines if the LDAP authentication service is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

ea_mapping

`ea_mapping`

The mapping LDAP fields to extensible attributes.

Type

A/An The LDAP extensible attribute mapping struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ldap_group_attribute

`ldap_group_attribute`

The name of the LDAP attribute that defines group membership.

Type

String.

Create

The default value is *memberOf*.

Search

The field is not available for search.

ldap_group_authentication_type

`ldap_group_authentication_type`

The LDAP group authentication type.

Type

String.

Valid values are:

- GROUP_ATTRIBUTE
- POSIX_GROUP

Create

The default value is *GROUP_ATTRIBUTE*.

Search

The field is not available for search.

ldap_user_attribute

`ldap_user_attribute`

The LDAP userid attribute that is used for search.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The ldap_user_attribute is part of the base object.

mode

`mode`

The LDAP authentication mode.

Type

String.

Valid values are:

- ORDERED_LIST
- ROUND_ROBIN

Create

The default value is *ORDERED_LIST*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The mode is part of the base object.

name

`name`

The LDAP authentication service name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

recovery_interval

`recovery_interval`

The period of time in seconds to wait before trying to contact a LDAP server that has been marked as 'DOWN'.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

retries

`retries`

The maximum number of LDAP authentication attempts.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

search_scope

`search_scope`

The starting point of the LDAP search.

Type

String.

Valid values are:

- BASE
- ONELEVEL
- SUBTREE

Create

The default value is *ONELEVEL*.

Search

The field is available for search via

- '=' (exact equality)

servers

`servers`

The list of LDAP servers used for authentication.

Type

A/An The LDAP server structure struct array.

Create

The field is required on creation.

Search

The field is not available for search.

timeout

`timeout`

The LDAP authentication timeout in seconds.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

check_ldap_server_settings

Test connectivity to LDAP server.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

ldap_authservice (String.) The name of the parent LDAP authentication service.

ldap_server (A/An The LDAP server structure struct.). This parameter is mandatory. The LDAP server which will be tested. The 'disable' flag is ignored.

timeout (Unsigned integer.) The timeout in seconds. The default value is "5".

Output fields

error_message (String.) The detailed description of failure.

overall_status (String. Valid values are: "SUCCESS", "FAILED") The overall status of the test.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
disable	Bool	N	N	Y	N/A
ea_mapping	[struct]	N	N	N	N/A
ldap_group_attribute	String	N	N	N	N/A
ldap_group_authentication_type	String	N	N	N	N/A
ldap_user_attribute	String	Y	N	Y	N/A

mode	String	N	N	Y	=
name	String	Y	N	Y	: = ~
recovery_interval	Unsigned int	Y	N	N	N/A
retries	Unsigned int	Y	N	N	N/A
search_scope	String	N	N	N	=
servers	[struct]	Y	N	N	N/A
timeout	Unsigned int	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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infoblox

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lease : DHCP Lease object.

A DHCP lease is an IP address that the Infoblox appliance assigns to a DHCP client for a certain amount of time. When the appliance assigns a lease, it also assignes other information, such as the time when the appliance issued or freed an IP address, the MAC address and host name of the client that received the IP address, and the Grid member that supplied the lease. The DHCP Lease object allows the appliance to store and correlate DHCP lease information over the lifetime of a lease.

Note that deleting a lease object only clears the lease, it does not remove the actual object.

Object Reference

References to lease are object references.

The *name* part of a DHCP Lease object reference has the following components:

- IP address of the lease
- Name of the view

Example (using _ref or UUID):

```
# Using _ref lease/ZG5zLmJpbmRfY25h:12.0.10.1/external

# Using UUID lease/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Permissions
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, network_view, uuid**.

address

`address`

The IPv4 Address or IPv6 Address of the lease.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)
- '<=' (less than search)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

billing_class

`billing_class`

The billing_class value of a DHCP Lease object. This field specifies the class to which this lease is currently billed. This field is for IPv4 leases only.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The billing_class cannot be updated.

billing_class cannot be written.

binding_state

`binding_state`

The binding state for the current lease. Following are some of the values this field can be set to:

- ABANDONED: The Infoblox appliance cannot lease this IP address because the appliance received a response when it pinged the address.
- ACTIVE: The lease is currently in use by a DHCP client.
- EXPIRED: The lease was in use, but the DHCP client never renewed it, so it is no longer valid.
- FREE: The lease is available for clients to use.
- RELEASED: The DHCP client returned the lease to the appliance.

Type

String.

Valid values are:

- ABANDONED
- ACTIVE
- BACKUP
- DECLINED
- EXPIRED
- FREE
- OFFERED
- RELEASED
- RESET
- STATIC

Search

The field is available for search via

- '=' (exact equality)

Notes

The binding_state cannot be updated.

binding_state cannot be written.

client_hostname

`client_hostname`

The client_hostname of a DHCP Lease object. This field specifies the host name that the DHCP client sends to the Infoblox appliance using DHCP option 12.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The client_hostname cannot be updated.

client_hostname cannot be written.

cltt

`cltt`

The CLTT (Client Last Transaction Time) value of a DHCP Lease object. This field specifies the time of the last transaction with the DHCP client for

this lease.

Type

Timestamp.

Search

The field is not available for search.

Notes

The cltt cannot be updated.

cltt cannot be written.

discovered_data

`discovered_data`

The discovered data for this lease.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

ends

`ends`

The end time value of a DHCP Lease object. This field specifies the time when a lease ended.

Type

Timestamp.

Search

The field is not available for search.

Notes

The ends cannot be updated.

ends cannot be written.

fingerprint

`fingerprint`

DHCP fingerprint for the lease.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The fingerprint cannot be updated.

fingerprint cannot be written.

hardware

`hardware`

The hardware type of a DHCP Lease object. This field specifies the MAC address of the network interface on which the lease will be used. This field is supported for IPv4 leases, and from NIOS-9.0.6 onwards, also supported for IPv6 leases.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The hardware cannot be updated.

hardware cannot be written.

ipv6_duid

`ipv6_duid`

The DUID value for this lease. This field is only applicable for IPv6 leases.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6_duid cannot be updated.

ipv6_duid cannot be written.

ipv6_iaid

`ipv6_iaid`

The interface ID of an IPv6 address that the Infoblox appliance leased to the DHCP client. This field is for IPv6 leases only.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ipv6_iaid cannot be updated.

ipv6_iaid cannot be written.

ipv6_preferred_lifetime

`ipv6_preferred_lifetime`

The preferred lifetime value of an IPv6 address that the Infoblox appliance leased to the DHCP client. This field is for IPv6 leases only.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The ipv6_preferred_lifetime cannot be updated.

ipv6_preferred_lifetime cannot be written.

ipv6_prefix_bits

`ipv6_prefix_bits`

Prefix bits for this lease. This field is for IPv6 leases only.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ipv6_prefix_bits cannot be updated.

ipv6_prefix_bits cannot be written.

is_invalid_mac

`is_invalid_mac`

This flag reflects whether the MAC address for this lease is invalid.

Type

Bool.

Search

The field is not available for search.

Notes

The is_invalid_mac cannot be updated.

is_invalid_mac cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network, in “network/netmask” format, with which this lease is associated.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The name of the network view in which this lease resides.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

never_ends

`never_ends`

If this field is set to True, the lease does not have an end time.

Type

Bool.

Search

The field is not available for search.

Notes

The never_ends cannot be updated.

never_ends cannot be written.

never_starts

never_starts

If this field is set to True, the lease does not have a start time.

Type

Bool.

Search

The field is not available for search.

Notes

The never_starts cannot be updated.

never_starts cannot be written.

next_binding_state

next_binding_state

The subsequent binding state when the current lease expires. This field is for IPv4 leases only. Following are some of the values this field can be set to:

- ABANDONED: The Infoblox appliance cannot lease this IP address because the appliance received a response when it pinged the address.
- ACTIVE: The lease is currently in use by a DHCP client.
- EXPIRED: The lease was in use, but the DHCP client never renewed it, so it is no longer valid.
- FREE: The lease is available for clients to use.
- RELEASED: The DHCP client returned the lease to the appliance.

Type

String.

Valid values are:

- ABANDONED
- ACTIVE
- BACKUP
- DECLINED
- EXPIRED
- FREE
- OFFERED
- RELEASED
- RESET
- STATIC

Search

The field is not available for search.

Notes

The next_binding_state cannot be updated.

next_binding_state cannot be written.

on_commit

`on_commit`

The list of commands to be executed when the lease is granted.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The on_commit cannot be updated.

on_commit cannot be written.

on_expiry

`on_expiry`

The list of commands to be executed when the lease expires.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The on_expiry cannot be updated.

on_expiry cannot be written.

on_release

`on_release`

The list of commands to be executed when the lease is released.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The on_release cannot be updated.

on_release cannot be written.

option

`option`

The option value of a DHCP Lease object. This field specifies the agent circuit ID and remote ID sent by a DHCP relay agent in DHCP option 82. This field is for IPv4 leases only.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The option cannot be updated.

option cannot be written.

protocol

`protocol`

This field determines whether the lease is an IPv4 or IPv6 address.

Type

String.

Valid values are:

- BOTH
- IPV4
- IPV6

Search

The field is available for search via

- '=' (exact equality)

Notes

The protocol cannot be updated.

protocol cannot be written.

remote_id

`remote_id`

This field represents the “Remote ID” sub-option of DHCP option 82.

Remote ID can be in ASCII form (e.g. `"abcd"`) or in colon-separated HEX form (e.g. `1:2:ab:cd`). HEX representation is used only when the sub-option value contains unprintable characters. If a remote ID sub-option value is in ASCII form, it is always enclosed in quotes to prevent ambiguous values (e.g. `"10:20"` - ASCII 5-byte string; `10:20` - HEX 2-byte value).

- ASCII representation is used if the remote ID sub-option contains only printable ASCII characters (ASCII characters in range `x20-0x7E`).
    - The backslash symbol (`\`) is used as an escape symbol to escape the quote symbol (`"`) in an ASCII string.
    - Double backslashes (`\\`) are used to represent the backslash symbol (`\`) in an ASCII string.
- HEX representation is used only when the remote ID sub-option value contains unprintable characters and is normalized as follows:
    - starting zero is removed from digits: `1`, `a` - Valid; `01`, `0a` - Invalid;
    - lowercase characters are used for symbols: `fa` - Valid; `FA` - Invalid.

NIOS does not support the convertion between HEX and ASCII formats. Searches are performed using the exact same format and value as the sub-option is represented.

Query examples assume the following leases are stored in the database:

Number	Option field	Extracted remote ID field
Lease01	agent.remote-id= “00152654358700” agent.circuit-id= “BX1-PORT-003”	“00152654358700”
Lease02	agent.remote-id=”Dhcp Relay 10” agent.circuit-id=”Port008”	“Dhcp Relay 10”
Lease03	agent.remote-id=”00:01:02”	“00:01:02”
Lease04	agent.remote-id=0:1:2	0:1:2
Lease05	agent.remote-id=02:03	2:3
Lease06	agent.remote-id=10:20	10:20
Lease07	agent.circuit-id= “no-remote-id”	

Expected results:

Query	Returned leases	Comments
remote_id=01:02	None	EXACT query. No results are expected.
remote_id=”Dhcp Relay 10”	Lease02	EXACT query for an ASCII value.

remote_id=0:1:2	Lease04	EXACT query for a HEX value.
remote_id=00:01:02	None	EXACT query for a HEX value. No results are expected as the search value is not normalized to the same format used in the database.
remote_id~=10	Lease02, Lease06	REGEX query.
remote_id~=^".*1	Lease01, Lease02, Lease03	REGEX query. Only ASCII values are expected due to the starting quote (") in the search value.
remote_id~=^[^"]*2	Lease04, Lease05, Lease06	REGEX query. Only HEX values are expected as the starting quote (") is excluded from the search value.
remote_id=""	None	EXACT query. No results are expected as no leases that contain an empty remote ID value exist in the database. ID value in the database.
remote_id~=""	Lease01, Lease02, Lease03, Lease04, Lease05, Lease06	REGEX query. This query is expected to match any lease that contain remote ID set to any value.

NOTE: Lease07 is not expected to be returned when searching for the remote ID sub-option.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The remote_id cannot be updated.

remote_id cannot be written.

requested_options

`requested_options`

This field contains the option request list received from the client. For DHCPv4, it includes "Parameter Request List" data and for DHCPv6, it includes "Option Request Option" data.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The requested_options cannot be updated.

requested_options cannot be written.

served_by

`served_by`

The IP address of the server that sends an active lease to a client.

Type

String.

Search

The field is not available for search.

Notes

The served_by cannot be updated.

served_by cannot be written.

server_host_name

`server_host_name`

The host name of the Grid member or Microsoft DHCP server that issues the lease.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The server_host_name cannot be updated.

server_host_name cannot be written.

starts

starts

The start time of a DHCP Lease object. This field specifies the time when the lease starts.

Type

Timestamp.

Search

The field is not available for search.

Notes

The starts cannot be updated.

starts cannot be written.

tsfp

tsfp

The TSFP (Time Sent From Partner) value of a DHCP Lease object. This field specifies the time that the current lease state ends, from the point of view of a remote DHCP failover peer. This field is for IPv4 leases only.

Type

Timestamp.

Search

The field is not available for search.

Notes

The tsfp cannot be updated.

tsfp cannot be written.

tstp

tstp

The TSTP (Time Sent To Partner) value of a DHCP Lease object. This field specifies the time that the current lease state ends, from the point of view of a local DHCP failover peer. This field is for IPv4 leases only.

Type

Timestamp.

Search

The field is not available for search.

Notes

The tstp cannot be updated.

tstp cannot be written.

uid

`uid`

The UID (User ID) value of a DHCP Lease object. This field specifies the client identifier that the DHCP client sends the Infoblox appliance (in DHCP option 61) when it acquires the lease. Not all DHCP clients send a UID. This field is for IPv4 leases only.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The uid cannot be updated.

uid cannot be written.

username

`username`

The user name that the server has associated with a DHCP Lease object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The username cannot be updated.

username cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

variable

`variable`

The variable value of a DHCP Lease object. This field keeps all variables related to the DDNS update of the DHCP lease. The variables related to the DDNS updates of the DHCP lease. The variables can be one of the following:

ddns-text: The ddns-text variable is used to record the value of the client’s TXT identification record when the interim DDNS update style has been used to update the DNS service for a particular lease.

ddns-fwd-name: When a DDNS update was successfully completed, the ddns-fwd-name variable records the value of the name used when the client’s A record was updated. The server may have used this name when it updated the client’s PTR record.

ddns-client-fqdn: If the server is configured to use the interim DDNS update style and is also configured to allow clients to update their own FQDNs, the ddns-client-fqdn variable records the name that the client used when it updated its own FQDN. This is also the name that the server used to update the client’s PTR record.

ddns-rev-name: If the server successfully updates the client’s PTR record, this variable will record the name that the DHCP server used for the PTR record. The name to which the PTR record points will be either the ddns-fwd-name or the ddns-client-fqdn.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The variable cannot be updated.

variable cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED

- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS

discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

‘=’ (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)

- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	! < = > ~
billing_class	String	N	Y	N	N/A
binding_state	String	N	Y	N	=
client_hostname	String	N	Y	N	= ~
cltt	Timestamp	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
ends	Timestamp	N	Y	N	N/A
fingerprint	String	N	Y	N	: = ~
hardware	String	N	Y	N	= ~

ipv6_duid	String	N	Y	N	= ~
ipv6_iaid	String	N	Y	N	N/A
ipv6_preferred_lifetime	Unsigned int	N	Y	N	N/A
ipv6_prefix_bits	Unsigned int	N	Y	N	=
is_invalid_mac	Bool	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	N	Y	N	= ~
network_view	String	N	Y	Y	=
never_ends	Bool	N	Y	N	N/A
never_starts	Bool	N	Y	N	N/A
next_binding_state	String	N	Y	N	N/A
on_commit	String	N	Y	N	N/A
on_expiry	String	N	Y	N	N/A
on_release	String	N	Y	N	N/A
option	String	N	Y	N	N/A
protocol	String	N	Y	N	=
remote_id	String	N	Y	N	= ~
requested_options	String	N	Y	N	=
served_by	String	N	Y	N	N/A
server_host_name	String	N	Y	N	N/A
starts	Timestamp	N	Y	N	N/A
tsfp	Timestamp	N	Y	N	N/A
tstp	Timestamp	N	Y	N	N/A
uid	String	N	Y	N	N/A
username	String	N	Y	N	= ~
uuid	String	N	Y	Y	: = ~
variable	String	N	Y	N	N/A

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~

discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >

discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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Table of Contents

license:gridwide : Gridwide license object.
- Object Reference
- Restrictions
- Fields
  - expiration_status
  - expiry_date
  - key
  - limit
  - limit_context
  - type
  - uuid
- Fields List

Previous topic

lease : DHCP Lease object.

Next topic

localuser:authservice : Local user authentication service object.

license:gridwide : Gridwide license object.

This object represents the Grid-wide license.

Object Reference

References to license:gridwide are object references. The *name* part of a Grid-wide License object reference has the following components:

- Type of License
- License limit

Example:

```
# Using _ref
license:gridwide/b25lLmxpY2Vuc2VfcG9vbCRkaGNwLjEw:SEC_ECO/10

# Using UUID
license:gridwide/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **type, uuid**.

expiration_status

`expiration_status`

The license expiration status.

Type

String.

Valid values are:

- DELETED
- EXPIRED

- EXPIRING_SOON
- EXPIRING_VERY_SOON
- NOT_EXPIRED
- PERMANENT

Search

The field is not available for search.

Notes

The expiration_status cannot be updated.

expiration_status cannot be written.

expiry_date

`expiry_date`

The expiration timestamp of the license.

Type

Timestamp.

Search

The field is not available for search.

Notes

The expiry_date cannot be updated.

expiry_date cannot be written.

key

`key`

The license string.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The key cannot be updated.

key cannot be written.

limit

`limit`

The license limit value.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The limit cannot be updated.

limit cannot be written.

limit_context

`limit_context`

The license limit context.

Type

String.

Valid values are:

- LEASES
- MODEL
- NONE
- TIER

Search

The field is not available for search.

Notes

The limit_context cannot be updated.

limit_context cannot be written.

type

`type`

The license type.

Type

String.

Valid values are:

- ANYCAST
- CLOUD
- CLOUD_API

- DCA
- DDI_TRIAL
- DHCP
- DISCOVERY
- DNS
- DNSQRW
- DNS_CACHE_ACCEL
- DTC
- FIREEYE
- FLEX_GRID_ACTIVATION
- FLEX_GRID_ACTIVATION_MS
- FREQ_CONTROL
- GRID
- GRID_MAINTENANCE
- IPAM
- IPAM_FREEWARE
- LDAP
- LOAD_BALANCER
- MGM
- MSMGMT
- NIOS
- NIOS_MAINTENANCE
- NTP
- OEM
- QRD
- REPORTING
- REPORTING_SUB
- RPZ
- SECURITY_ECOSYSTEM
- SW_TP
- TAE
- TFTP
- THREAT_INSIGHT
- TP
- TP_SUB
- VNIOS

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
expiration_status	String	N	Y	N	N/A
expiry_date	Timestamp	N	Y	N	N/A
key	String	N	Y	N	=
limit	String	N	Y	N	=
limit_context	String	N	Y	N	N/A
type	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

localuser:authservice : Local user authentication service object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disabled
  - name
- Fields List

Previous topic

license:gridwide : Gridwide license object.

Next topic

macfilteraddress : MAC Filter Address object.

localuser:authservice : Local user authentication service object.

The object represents a local authentication service for authenticating users against the local database.

Note that read by reference is not supported.

Object Reference

References to localuser:authservice are object references.

The *name* part of a local user authentication service reference has the following components:

- The local user authentication service name.

Example: localuser:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:local1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disabled, name**.

comment

comment

The local user authentication service comment.

Type

String.

Search

The field is not available for search.

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

disabled

disabled

Flag that indicates whether the local user authentication service is enabled or not.

Type

Bool.

Search

The field is not available for search.

Notes

The disabled is part of the base object.

The disabled cannot be updated.

disabled cannot be written.

name

name

The name of the local user authentication service.

Type

String.

Search

The field is not available for search.

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	Y	N/A
disabled	Bool	N	Y	Y	N/A
name	String	N	Y	Y	N/A

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Table of Contents

- macfilteraddress : MAC Filter Address object.
  - Object Reference
  - Restrictions
  - Fields
    - authentication_time
    - comment
    - expiration_time
    - extattrs
    - filter
    - fingerprint
    - guest_custom_field1
    - guest_custom_field2
    - guest_custom_field3
    - guest_custom_field4
    - guest_email
    - guest_first_name
    - guest_last_name
    - guest_middle_name
    - guest_phone
    - is_registered_user
    - mac
    - never_expires
    - reserved_for_infoblox
    - username
    - uuid
  - Fields List

Previous topic

localuser:authservice : Local user authentication service object.

Next topic

mastergrid : Master Grid object.

macfilteraddress : MAC Filter Address object.

MAC filter address is part of the MAC filter.

Object Reference

References to macfilteraddress are object references. The *name* part of a macfilteraddress object reference has the following components:

- MAC Address
- Name of the MAC filter to which this address belongs

Example (using _ref or UUID):

```
# Using _ref macfilteraddress/ZG5OjQ0OjU1OjY2:11%3A22%3A33%3A44%3A55%3A66/macf1

# Using UUID macfilteraddress/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **authentication_time, comment, expiration_time, filter, guest_custom_field1, guest_custom_field2, guest_custom_field3, guest_custom_field4, guest_email, guest_first_name, guest_last_name, guest_middle_name, guest_phone, is_registered_user, mac, never_expires, reserved_for_infoblox, username, uuid**.

The following fields are required to create this object:

Field	Notes
filter	
mac	

authentication_time

`authentication_time`

The absolute UNIX time (in seconds) since the address was last authenticated.

Type

Timestamp.

Create

The default value is *empty*.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

The authentication_time is part of the base object.

comment

`comment`

Comment for the MAC filter address; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

expiration_time

`expiration_time`

The absolute UNIX time (in seconds) until the address expires.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

The expiration_time is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

filter

`filter`

Name of the MAC filter to which this address belongs.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The filter is part of the base object.

fingerprint

`fingerprint`

DHCP fingerprint for the address.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The fingerprint cannot be updated.

fingerprint cannot be written.

guest_custom_field1

`guest_custom_field1`

Guest custom field 1.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The guest_custom_field1 is part of the base object.

guest_custom_field2

`guest_custom_field2`

Guest custom field 2.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The guest_custom_field2 is part of the base object.

guest_custom_field3

`guest_custom_field3`

Guest custom field 3.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_custom_field3 is part of the base object.

guest_custom_field4

`guest_custom_field4`

Guest custom field 4.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_custom_field4 is part of the base object.

guest_email

`guest_email`

Guest e-mail.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_email is part of the base object.

guest_first_name

`guest_first_name`

Guest first name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_first_name is part of the base object.

guest_last_name

`guest_last_name`

Guest last name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_last_name is part of the base object.

guest_middle_name

`guest_middle_name`

Guest middle name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_middle_name is part of the base object.

guest_phone

`guest_phone`

Guest phone number.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The guest_phone is part of the base object.

is_registered_user

`is_registered_user`

Determines if the user has been authenticated or not.

Type

Bool.

Search

The field is not available for search.

Notes

The is_registered_user is part of the base object.

The is_registered_user cannot be updated.

is_registered_user cannot be written.

mac

`mac`

MAC Address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mac is part of the base object.

never_expires

`never_expires`

Determines if MAC address expiration is enabled or disabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The never_expires is part of the base object.

reserved_for_infoblox

`reserved_for_infoblox`

Reserved for future use.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The reserved_for_infoblox is part of the base object.

username

`username`

Username for authenticated DHCP purposes.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The username is part of the base object.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
authentication_time	Timestamp	N	N	Y	! < = >
comment	String	N	N	Y	: = ~
expiration_time	Timestamp	N	N	Y	! < = >
extattrs	Extattr	N	N	N	ext
filter	String	Y	N	Y	= ~
fingerprint	String	N	Y	N	: = ~
guest_custom_field1	String	N	N	Y	: = ~
guest_custom_field2	String	N	N	Y	: = ~
guest_custom_field3	String	N	N	Y	: = ~
guest_custom_field4	String	N	N	Y	: = ~
guest_email	String	N	N	Y	: = ~
guest_first_name	String	N	N	Y	: = ~
guest_last_name	String	N	N	Y	: = ~
guest_middle_name	String	N	N	Y	: = ~
guest_phone	String	N	N	Y	: = ~
is_registered_user	Bool	N	Y	Y	N/A
mac	String	Y	N	Y	= ~
never_expires	Bool	N	N	Y	=
reserved_for_infoblox	String	N	N	Y	: = ~
username	String	N	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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mastergrid : Master Grid object.
- Object Reference
- Restrictions
- Fields
  - address
  - connection_disabled
  - connection_timestamp
  - detached
  - discovery_sync_disabled
  - enable
  - join_status
  - join_token
  - join_token_expiration
  - joined
  - last_event
  - last_event_details
  - last_sync_timestamp
  - mgm_communication_mode
  - port
  - use_mgmt_port
  - uuid
- Fields List

Previous topic

macfilteraddress : MAC Filter Address object.

Next topic

member : Member object.

mastergrid : Master Grid object.

This object represents the Master Grid. The Master Grid object is automatically generated when a Grid successfully joins the Master Grid.

Object Reference

References to mastergrid are object references. The *name* part of a Master Grid object reference has the following components:

- The address of the Master Grid.

Example (using _ref or UUID):

```
# Using _ref
mastergrid/ZG5zLm5ldHdvcmtfdmlldyQxMTk:10.0.0.1

# Using UUID
mastergrid/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, discovery_sync_disabled, enable, joined, port, uuid**.

address

`address`

IP Address or FQDN to use to contact the SGM

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

connection_disabled

`connection_disabled`

Indicates whether the sub-grid is currently disabled (true) or not (false).

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The connection_disabled cannot be updated.

connection_disabled cannot be written.

connection_timestamp

`connection_timestamp`

Timestamp of the beginning of the current VPN connection with the SGM.

Type

Timestamp.

Search

The field is available for search via

- '=' (exact equality)

Notes

The connection_timestamp cannot be updated.

connection_timestamp cannot be written.

detached

`detached`

Indicate detached state of subgrid with MGM.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The detached cannot be updated.

detached cannot be written.

discovery_sync_disabled

`discovery_sync_disabled`

Enable/Disable discovery service.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_sync_disabled is part of the base object.

enable

`enable`

Enable/Disable SuperGrid membership feature

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The enable is part of the base object.

join_status

`join_status`

Gives the overall status of the Super Grid connectivity

Type

String.

Valid values are:

- FAILED
- INACTIVE
- WARNING
- WORKING

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The join_status cannot be updated.

join_status cannot be written.

join_token

`join_token`

Sub grid join token value.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The join_token cannot be updated.

join_token cannot be written.

join_token_expiration

`join_token_expiration`

Timestamp when the sub grid join token expires.

Type

Timestamp.

Search

The field is available for search via

- '=' (exact equality)

Notes

The join_token_expiration cannot be updated.

join_token_expiration cannot be written.

joined

`joined`

Indicates whether the sub-grid is currently joined or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The joined is part of the base object.

The joined cannot be updated.

joined cannot be written.

last_event

`last_event`

Last event notified by the Super Grid Master.

Type

String.

Valid values are:

- ATTACH
- DETACH
- DISABLE
- EVICT
- MESSAGE

Search

The field is available for search via

- '=' (exact equality)

Notes

The last_event cannot be updated.

last_event cannot be written.

last_event_details

`last_event_details`

additional details on the event.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The last_event_details cannot be updated.

last_event_details cannot be written.

last_sync_timestamp

`last_sync_timestamp`

Timestamp of the last synchronization with the SGM.

Type

Timestamp.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The last_sync_timestamp cannot be updated.

last_sync_timestamp cannot be written.

mgm_communication_mode

`mgm_communication_mode`

MGM Communication Mode.

Type

String.

Valid values are:

- MODE1
- MODE2

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The mgm_communication_mode cannot be updated.

mgm_communication_mode cannot be written.

port

`port`

Alternate port number to use when connecting to the VPN endpoint.

Type

Unsigned integer.

Create

The default value is *1194*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The port is part of the base object.

use_mgmt_port

`use_mgmt_port`

Indicates whether to use the management port to connect to the SGM.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The use_mgmt_port cannot be updated.

use_mgmt_port cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	N	Y	: = ~
connection_disabled	Bool	N	Y	N	=

connection_timestamp	Timestamp	N	Y	N	=
detached	Bool	N	Y	N	=
discovery_sync_disabled	Bool	N	N	Y	=
enable	Bool	N	N	Y	=
join_status	String	N	Y	N	=
join_token	String	N	Y	N	=
join_token_expiration	Timestamp	N	Y	N	=
joined	Bool	N	Y	Y	=
last_event	String	N	Y	N	=
last_event_details	String	N	Y	N	=
last_sync_timestamp	Timestamp	N	Y	N	=
mgm_communication_mode	String	N	Y	N	=
port	Unsigned int	N	N	Y	=
use_mgmt_port	Bool	N	Y	N	=
uuid	String	N	Y	Y	: = ~

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infoblox

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member : Member object.

This object represents the Infoblox Grid Member. Support for the Liquid Crystal Display (LCD) fields lcd_input and use_lcd_input has been deprecated from NIOS 9.0.4 onwards.

Object Reference

References to member are object references. The *name* part of a member object reference has the following components:

- The member host name.

Example (using _ref or UUID):

```
# Using _ref member/ZG5zLm5ldHdvcmtfdmlldyQxMTk:member.com

# Using UUID member/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **config_addr_type, host_name, platform, service_type_configuration, uuid**.

The following fields are required to create this object:

Field	Notes
host_name	
ipv6_setting	See the field description for more information
vip_setting	See the field description for more information

active_position

`active_position`

The active server of a Grid member.

Type

String.

Search

The field is not available for search.

Notes

The active_position cannot be updated.

active_position cannot be written.

additional_ip_list

additional_ip_list

The additional IP list of a Grid member. This list contains additional interface information that can be used at the member level.

Note that interface structure(s) with interface type set to ‘MGMT’ are not supported.

Type

A/An IPv6/IPv4 interfaces settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

automated_traffic_capture_setting

automated_traffic_capture_setting

Member level settings for automated traffic capture.

Type

A/An Automated Traffic Capture struct.

Create

The default value is:

```
  { 'destination': 'NONE',
'include_support_bundle': False,
'keep_local_copy': False,
'traffic_capture_enable': False}
```

Search

The field is not available for search.

Notes

automated_traffic_capture_setting is associated with the field use_automated_traffic_capture (see use flag).

bgp_as

bgp_as

The BGP configuration for anycast for a Grid member.

Type

A/An BGP (Border Gateway Protocol) Autonomous System (AS) struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

comment

comment

A descriptive comment of the Grid member.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

config_addr_type

config_addr_type

Address configuration type.

Type

String.

Valid values are:

- BOTH
- IPV4
- IPV6

Create

The default value is *IPV4*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The config_addr_type is part of the base object.

csp_access_key

`csp_access_key`

CSP portal on-prem host access key

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

csp_member_setting

`csp_member_setting`

csp setting at member level. Test Setting will be performed for any change under CSP_member_setting.

Type

A/An CSP Member setting struct.

Create

The default value is:

```
{}
```

Search

The field is not available for search.

dns_resolver_setting

`dns_resolver_setting`

DNS resolver setting for member.

Type

A/An DNS resolver Setting struct.

Create

The default value is *See the dns resolver setting struct for default values*.

Search

The field is not available for search.

Notes

dns_resolver_setting is associated with the field use_dns_resolver_setting (see use flag).

dscp

dscp

The DSCP (Differentiated Services Code Point) value.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

dscp is associated with the field use_dscp (see use flag).

email_setting

email_setting

The email setting for member.

Type

A/An The email settings for the Grid member struct.

Create

The default value is:

```
  { 'enabled': False,
'port_number': 25,
'relay_enabled': False,
'smtps': False,
'use_authentication': False}
```

Search

The field is not available for search.

Notes

email_setting is associated with the field use_email_setting (see use flag).

enable_ha

enable_ha

If set to True, the member has two physical nodes (HA pair).

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

enable_lom

`enable_lom`

Determines if the LOM functionality is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

enable_lom is associated with the field use_enable_lom (see use flag).

enable_member_redirect

`enable_member_redirect`

Determines if the member will redirect GUI connections to the Grid Master or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_member_redirect is associated with the field use_enable_member_redirect (see use flag).

enable_ro_api_access

enable_ro_api_access

If set to True and the member object is a Grid Master Candidate, then read-only API access is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_syslog_backup_servers

external_syslog_backup_servers

The list of external syslog backup servers.

Type

A/An External syslog backup server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

external_syslog_backup_servers is associated with the field use_external_syslog_backup_servers (see use flag).

external_syslog_server_enable

`external_syslog_server_enable`

Determines if external syslog servers should be enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

external_syslog_server_enable is associated with the field use_syslog_proxy_setting (see use flag).

ha_cloud_platform

`ha_cloud_platform`

Cloud platform for HA.

Type

String.

Valid values are:

- AWS
- AZURE
- GCP
- OCI

Create

The default value is *undefined*.

Search

The field is not available for search.

ha_on_cloud

`ha_on_cloud`

True: HA on cloud. False: HA not on cloud.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

host_name

`host_name`

The host name of the Grid member.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The host_name is part of the base object.

ipv6_setting

`ipv6_setting`

IPV6 setting for member.

Type

A/An IPv6 Settings struct.

Create

At least one of vip_setting and ipv6_setting is required.

Search

The field is not available for search.

ipv6_static_routes

`ipv6_static_routes`

List of IPv6 static routes.

Type

A/An IPv6 Network Settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

is_dscp_capable

`is_dscp_capable`

Determines if a Grid member supports DSCP (Differentiated Services Code Point).

Type

Bool.

Search

The field is not available for search.

Notes

The is_dscp_capable cannot be updated.

is_dscp_capable cannot be written.

is_master

`is_master`

Determines if a Grid member is a Grid Master or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_master cannot be updated.

is_master cannot be written.

lan2_enabled

lan2_enabled

If this is set to “true”, the LAN2 port is enabled as an independent port or as a port for failover purposes.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

lan2_port_setting

lan2_port_setting

Settings for the Grid member LAN2 port if ‘lan2_enabled’ is set to “true”.

Type

A/An LAN2 Port Setting struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

lom_network_config

lom_network_config

The Network configurations for LOM.

Type

A/An The LOM network configuration structure struct array. The array supports a maximum of 2 element(s).

Create

The default value is:

```
[{'is_lom_capable': False}, {'is_lom_capable': False}]
```

Search

The field is not available for search.

lom_users

lom_users

The list of LOM users.

Type

A/An The Lights Out Management (LOM) user struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

master_candidate

`master_candidate`

Determines if a Grid member is a Grid Master Candidate or not. This flag enables the Grid member to assume the role of the Grid Master as a disaster recovery measure.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

member_service_communication

`member_service_communication`

Configure communication type for various services.

Type

A/An Member Service Communication struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

mgmt_port_setting

`mgmt_port_setting`

Settings for the member MGMT port.

Type

A/An MGMT Port Setting struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

mmdb_ea_build_time

`mmdb_ea_build_time`

Extensible attributes Topology database build time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The mmdb_ea_build_time cannot be updated.

mmdb_ea_build_time cannot be written.

mmdb_geoip_build_time

`mmdb_geoip_build_time`

GeoIP Topology database build time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The mmdb_geoip_build_time cannot be updated.

mmdb_geoip_build_time cannot be written.

nat_setting

`nat_setting`

NAT settings for the member.

Type

A/An NAT Settings struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

node_info

node_info

The node information list with detailed status report on the operations of the Grid Member, mgmt_port_setting must be enabled when configuring the MGMT Port using the node_info field.

Type

A/An Node Info struct array.

Create

The default value is:

```
[{}]
```

Search

The field is not available for search.

ntp_setting

ntp_setting

The member Network Time Protocol (NTP) settings.

Type

A/An The member Network Time Protocol (NTP) settings structure struct.

Create

The default value is:

```
  { 'enable_external_ntp_servers': False,
'enable_ntp': False,
'exclude_grid_master_ntp_server': False,
'local_ntp_stratum:': 15,
'ntp_acl': {'ac_list': [], 'acl_type': 'NONE', 'service': 'TIME'},
'ntp_keys': [],
'ntp_kod': False,
'ntp_servers': [],
'use_default_stratum:': True,
'use_local_ntp_stratum': False,
'use_ntp_acl': False,
'use_ntp_keys': False,
'use_ntp_kod': False,
'use_ntp_servers': False}
```

Search

The field is not available for search.

ospf_list

`ospf_list`

The OSPF area configuration (for anycast) list for a Grid member.

Type

A/An OSPF Settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

passive_ha_arp_enabled

`passive_ha_arp_enabled`

The ARP protocol setting on the passive node of an HA pair. If you do not specify a value, the default value is “false”. You can only set this value to “true” if the member is an HA pair.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

platform

`platform`

Hardware Platform.

Type

String.

Valid values are:

- CISCO
- IBVM
- INFOBLOX
- RIVERBED
- VNIOS

Create

The default value is *INFOBLOX*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The platform is part of the base object.

pre_provisioning

`pre_provisioning`

Pre-provisioning information.

Type

A/An Pre-provisioning Settings struct.

Create

The default value is *empty*.

Search

The field is not available for search.

preserve_if_owns_delegation

`preserve_if_owns_delegation`

Set this flag to "true" to prevent the deletion of the member if any delegated object remains attached to it.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

remote_console_access_enable

`remote_console_access_enable`

If set to True, superuser admins can access the Infoblox CLI from a remote location using an SSH (Secure Shell) v2 client.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

remote_console_access_enable is associated with the field use_remote_console_access_enable (see use flag).

router_id

`router_id`

Virtual router identifier. Provide this ID if “ha_enabled” is set to “true”. This is a unique VRID number (from 1 to 255) for the local subnet.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is available for search via

- ‘=’ (exact equality)

service_status

`service_status`

The service status list of a grid member.

Type

A/An Member Service Status struct array.

Search

The field is not available for search.

Notes

The service_status cannot be updated.

service_status cannot be written.

service_type_configuration

`service_type_configuration`

Configure all services to the given type.

Type

String.

Valid values are:

- ALL_V4
- ALL_V6
- CUSTOM

Create

The default value is *ALL_V4*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The service_type_configuration is part of the base object.

snmp_setting

`snmp_setting`

The Grid Member SNMP settings.

Type

A/An SNMP setting struct.

Create

The default value is *See the SNMP settings struct for default values*.

Search

The field is not available for search.

Notes

snmp_setting is associated with the field use_snmp_setting (see use flag).

static_routes

`static_routes`

List of static routes.

Type

A/An Network settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

support_access_enable

support_access_enable

Determines if support access for the Grid member should be enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

support_access_enable is associated with the field use_support_access_enable (see use flag).

support_access_info

support_access_info

The information string for support access.

Type

String.

Search

The field is not available for search.

Notes

The support_access_info cannot be updated.

support_access_info cannot be written.

syslog_proxy_setting

syslog_proxy_setting

The Grid Member syslog proxy settings.

Type

A/An Syslog proxy settings struct.

Create

The default value is *See the syslog proxy settings struct for default values*.

Search

The field is not available for search.

Notes

syslog_proxy_setting is associated with the field use_syslog_proxy_setting (see use flag).

syslog_servers

syslog_servers

The list of external syslog servers.

Type

A/An Syslog server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

syslog_servers is associated with the field use_syslog_proxy_setting (see use flag).

syslog_size

syslog_size

The maximum size for the syslog file expressed in megabytes.

Type

Unsigned integer.

Create

The default value is *300*.

Search

The field is not available for search.

Notes

syslog_size is associated with the field use_syslog_proxy_setting (see use flag).

threshold_traps

threshold_traps

Determines the list of threshold traps. The user can only change the values for each trap or remove traps.

Type

A/An The Grid SNMP threshold trap structure struct array.

Create

The default value is *All threshold traps*.

Search

The field is not available for search.

Notes

threshold_traps is associated with the field use_threshold_traps (see use flag).

time_zone

`time_zone`

The time zone of the Grid member. The UTC string that represents the time zone, such as “Asia/Kolkata”.

Type

String.

Create

The default value is *UTC*.

Search

The field is not available for search.

Notes

time_zone is associated with the field use_time_zone (see use flag).

traffic_capture_auth_dns_setting

`traffic_capture_auth_dns_setting`

Grid level settings for enabling authoritative DNS latency thresholds for automated traffic capture.

Type

A/An Member level settings for traffic based on authoritative DNS struct.

Create

The default value is:

```
  { 'auth_dns_latency_listen_on_source': 'VIP_V4',
'auth_dns_latency_trigger_enable': False}
```

Search

The field is not available for search.

Notes

traffic_capture_auth_dns_setting is associated with the field

use_traffic_capture_auth_dns (see use flag).

traffic_capture_chr_setting

`traffic_capture_chr_setting`

Member level settings for enabling DNS cache hit ratio threshold for automated traffic capture.

Type

A/An Grid level Traffic capture chr setting struct.

Create

The default value is:

```
{'chr_trigger_enable': False}
```

Search

The field is not available for search.

Notes

traffic_capture_chr_setting is associated with the field use_traffic_capture_chr (see use flag).

traffic_capture_qps_setting

`traffic_capture_qps_setting`

Member level settings for enabling DNS query per second threshold for automated traffic capture.

Type

A/An Grid level traffic capture QPS setting struct.

Create

The default value is:

```
{'qps_trigger_enable': False}
```

Search

The field is not available for search.

Notes

traffic_capture_qps_setting is associated with the field use_traffic_capture_qps (see use flag).

traffic_capture_rec_dns_setting

`traffic_capture_rec_dns_setting`

Grid level settings for enabling recursive DNS latency thresholds for automated traffic capture.

Type

A/An Grid level settings for traffic capture based on recursive struct.

Create

The default value is:

```
  { 'kpi_monitored_domains': [],
'rec_dns_latency_listen_on_source': 'VIP_V4',
'rec_dns_latency_trigger_enable': False}
```

Search

The field is not available for search.

Notes

traffic_capture_rec_dns_setting is associated with the field use_traffic_capture_rec_dns (see use flag).

traffic_capture_rec_queries_setting

`traffic_capture_rec_queries_setting`

Grid level settings for enabling count for concurrent outgoing recursive queries for automated traffic capture.

Type

A/An Grid level settings for traffic capture based on recursive struct.

Create

The default value is:

```
{'recursive_clients_count_trigger_enable': False}
```

Search

The field is not available for search.

Notes

traffic_capture_rec_queries_setting is associated with the field use_traffic_capture_rec_queries (see use flag).

trap_notifications

`trap_notifications`

Determines configuration of the trap notifications.

Type

A/An The Grid SNMP trap notification structure struct array.

Create

The default value is *All trap notifications*.

Search

The field is not available for search.

Notes

trap_notifications is associated with the field use_trap_notifications (see use flag).

upgrade_group

`upgrade_group`

The name of the upgrade group to which this Grid member belongs.

Type

String.

Create

The default value is *Default*.

Search

The field is not available for search.

use_automated_traffic_capture

`use_automated_traffic_capture`

This flag is the use flag for enabling automated traffic capture based on DNS cache ratio thresholds.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns_resolver_setting

`use_dns_resolver_setting`

Use flag for: dns_resolver_setting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dscp

use_dscp

Use flag for: dscp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_setting

use_email_setting

Use flag for: email_setting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_lom

use_enable_lom

Use flag for: enable_lom

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_member_redirect

use_enable_member_redirect

Use flag for: enable_member_redirect

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_external_syslog_backup_servers

`use_external_syslog_backup_servers`

Use flag for: external_syslog_backup_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_remote_console_access_enable

`use_remote_console_access_enable`

Use flag for: remote_console_access_enable

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp_setting

`use_snmp_setting`

Use flag for: snmp_setting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_support_access_enable

use_support_access_enable

Use flag for: support_access_enable

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_syslog_proxy_setting

use_syslog_proxy_setting

Use flag for: external_syslog_server_enable , syslog_servers, syslog_proxy_setting, syslog_size

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_threshold_traps

use_threshold_traps

Use flag for: threshold_traps

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_time_zone

use_time_zone

Use flag for: time_zone

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_traffic_capture_auth_dns

use_traffic_capture_auth_dns

This flag is the use flag for enabling automated traffic capture based on authoritative DNS latency.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_traffic_capture_chr

use_traffic_capture_chr

This flag is the use flag for automated traffic capture settings at member level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_traffic_capture_qps

use_traffic_capture_qps

This flag is the use flag for enabling automated traffic capture based on DNS queries per second thresholds.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_traffic_capture_rec_dns

`use_traffic_capture_rec_dns`

This flag is the use flag for enabling automated traffic capture based on recursive DNS latency.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_traffic_capture_rec_queries

`use_traffic_capture_rec_queries`

This flag is the use flag for enabling automated traffic capture based on outgoing recursive queries.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_trap_notifications

`use_trap_notifications`

Use flag for: trap_notifications

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_v4_vrrp

`use_v4_vrrp`

Specify “true” to use VRRPv4 or “false” to use VRRPv6.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vip_setting

`vip_setting`

The network settings for the Grid member.

Type

A/An Network settings struct.

Create

At least one of vip_setting and ipv6_setting is required.

Search

The field is not available for search.

vpn_mtu

vpn_mtu

The VPN maximum transmission unit (MTU).

Type

Unsigned integer.

Create

The default value is *1450*.

Search

The field is not available for search.

Function Calls

capture_traffic_control

Starts/Stops a traffic capture session on the specified member node.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “START”, “STOP”). This parameter is mandatory. The traffic capture action.

interface (String. Valid values are: “ALL”, “HA”, “LAN1”, “LAN2”, “MGMT”). This parameter is mandatory. The interface on which the traffic is captured.

seconds_to_run (Unsigned integer.) The number of seconds for which the traffic capture is going to run. The default value is “30”.

Output fields

None

capture_traffic_status

Gets traffic capture status on the specified member node.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

file_exists (Bool.) Determines if the capture file for the member exist or not.

file_size (Unsigned integer.) The size of the traffic capture file for the member.

status (String. Valid values are: “STOPPED”, “RUNNING”, “UNKNOWN”) The status of the capture operation for the member.

create_token

Creates tokens for all available physical nodes on the member (virtual_node) and returns an array of records for pnode_token (physical_oid, token, and token_exp_date).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

pnode_tokens (A/An Physical Node Token struct array.) An array of tokens. One token for each physical node of the Grid member.

member_admin_operation

Performs requested admin operation on the specified member node.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: “FORCE_FAILOVER”). This parameter is mandatory. The operation to be performed on the member.

Output fields

None

read_token

Returns tokens for all available physical nodes on the member (virtual_node).

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

pnode_tokens (A/An Physical Node Token struct array.) An array of tokens. One token for each physical node of the Grid member.

requestrestartservicestatus

Use this function to request the Member service status. This function will refresh the restartservicestatus object.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

service_option (String. Valid values are: “ALL”, “DHCP”, “DNS”) This field indicates the services for which you want to request status. The default value is “ALL”.

Output fields

None

restartservices

This function controls the Member services.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

restart_option (String. Valid values are: “FORCE_RESTART”, “RESTART_IF_NEEDED”). This parameter is mandatory. This field controls whether services are restarted unconditionally or when needed.

service_option (String. Valid values are: “ALL”, “DHCP”, “DNS”). This parameter is mandatory. This field indicates the services that the appliance restarts.

Output fields

None

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

ipv4_address

`ipv4_address`

The member’s IPv4 Address.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

ipv4_address is a search-only field.

ipv6_address

`ipv6_address`

The member's IPv6 Address.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

ipv6_address is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
active_position	String	N	Y	N	N/A
additional_ip_list	[struct]	N	N	N	N/A
automated_traffic_capture_setting	struct	N	N	N	N/A
bgp_as	[struct]	N	N	N	N/A
comment	String	N	N	N	: = ~
config_addr_type	String	N	N	Y	=
csp_access_key	[String]	N	N	N	N/A
csp_member_setting	struct	N	N	N	N/A
dns_resolver_setting	struct	N	N	N	N/A
dscp	Unsigned int	N	N	N	N/A
email_setting	struct	N	N	N	N/A
enable_ha	Bool	N	N	N	=
enable_lom	Bool	N	N	N	N/A
enable_member_redirect	Bool	N	N	N	N/A
enable_ro_api_access	Bool	N	N	N	=
extattrs	Extattr	N	N	N	ext
external_syslog_backup_servers	[struct]	N	N	N	N/A
external_syslog_server_enable	Bool	N	N	N	N/A
ha_cloud_platform	String	N	N	N	N/A
ha_on_cloud	Bool	N	N	N	N/A
host_name	String	Y	N	Y	: = ~
ipv6_setting	struct	Y*	N	N	N/A
ipv6_static_routes	[struct]	N	N	N	N/A
is_dscp_capable	Bool	N	Y	N	N/A
is_master	Bool	N	Y	N	=
lan2_enabled	Bool	N	N	N	N/A
lan2_port_setting	struct	N	N	N	N/A
lom_network_config	[struct]	N	N	N	N/A
lom_users	[struct]	N	N	N	N/A

master_candidate	Bool	N	N	N	=
member_service_communication	[struct]	N	N	N	N/A
mgmt_port_setting	struct	N	N	N	N/A
mmdb_ea_build_time	Timestamp	N	Y	N	N/A
mmdb_geoip_build_time	Timestamp	N	Y	N	N/A
nat_setting	struct	N	N	N	N/A
node_info	[struct]	N	N	N	N/A
ntp_setting	struct	N	N	N	N/A
ospf_list	[struct]	N	N	N	N/A
passive_ha_arp_enabled	Bool	N	N	N	N/A
platform	String	N	N	Y	=
pre_provisioning	struct	N	N	N	N/A
preserve_if_owns_delegation	Bool	N	N	N	=
remote_console_access_enable	Bool	N	N	N	N/A
router_id	Unsigned int	N	N	N	=
service_status	[struct]	N	Y	N	N/A
service_type_configuration	String	N	N	Y	=
snmp_setting	struct	N	N	N	N/A
static_routes	[struct]	N	N	N	N/A
support_access_enable	Bool	N	N	N	N/A
support_access_info	String	N	Y	N	N/A
syslog_proxy_setting	struct	N	N	N	N/A
syslog_servers	[struct]	N	N	N	N/A
syslog_size	Unsigned int	N	N	N	N/A
threshold_traps	[struct]	N	N	N	N/A
time_zone	String	N	N	N	N/A
traffic_capture_auth_dns_setting	struct	N	N	N	N/A
traffic_capture_chr_setting	struct	N	N	N	N/A
traffic_capture_qps_setting	struct	N	N	N	N/A
traffic_capture_rec_dns_setting	struct	N	N	N	N/A
traffic_capture_rec_queries_setting	struct	N	N	N	N/A
trap_notifications	[struct]	N	N	N	N/A
upgrade_group	String	N	N	N	N/A
use_automated_traffic_capture	Bool	N	N	N	N/A
use_dns_resolver_setting	Bool	N	N	N	N/A
use_dscp	Bool	N	N	N	N/A
use_email_setting	Bool	N	N	N	N/A
use_enable_lom	Bool	N	N	N	N/A
use_enable_member_redirect	Bool	N	N	N	N/A
use_external_syslog_backup_servers	Bool	N	N	N	N/A
use_remote_console_access_enable	Bool	N	N	N	N/A
use_snmp_setting	Bool	N	N	N	N/A
use_support_access_enable	Bool	N	N	N	N/A
use_syslog_proxy_setting	Bool	N	N	N	N/A
use_threshold_traps	Bool	N	N	N	N/A
use_time_zone	Bool	N	N	N	N/A
use_traffic_capture_auth_dns	Bool	N	N	N	N/A
use_traffic_capture_chr	Bool	N	N	N	N/A
use_traffic_capture_qps	Bool	N	N	N	N/A

use_traffic_capture_rec_dns	Bool	N	N	N	N/A
use_traffic_capture_rec_queries	Bool	N	N	N	N/A
use_trap_notifications	Bool	N	N	N	N/A
use_v4_vrrp	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vip_setting	struct	Y*	N	N	N/A
vpn_mtu	Unsigned int	N	N	N	N/A

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
ipv4_address	String	=
ipv6_address	String	=

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member:dhcpproperties : Member DHCP properties object.

This object represents a subset of the Infoblox Member DHCP properties.

Object Reference

References to member:dhcpproperties are object references. The *name* part of a Member DHCP properties object reference has the following components:

- The host name of the Grid Member to which the DHCP properties apply.

Example:

```
# Using _ref
member:dhcpproperties/ZG5zLm5ldHdvcmtfdmlldyQxMTk:member.com

# Using UUID
member:dhcpproperties/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

In addition the object does not support the following operations when managed on Cloud Platform members:

- Modify (update)

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **host_name, ipv4addr, ipv6addr, uuid**.

auth_server_group

`auth_server_group`

The Authentication Server Group object associated with this member.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

authn_captive_portal

authn_captive_portal

The captive portal responsible for authenticating this DHCP member.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

authn_captive_portal_authenticated_filter

authn_captive_portal_authenticated_filter

The MAC filter representing the authenticated range.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

authn_captive_portal_enabled

authn_captive_portal_enabled

The flag that controls if this DHCP member is enabled for captive portal authentication.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

authn_captive_portal_guest_filter

authn_captive_portal_guest_filter

The MAC filter representing the guest range.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

authn_server_group_enabled

`authn_server_group_enabled`

The flag that controls if this DHCP member can send authentication requests to an authentication server group.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

authority

`authority`

The authority flag of a Grid member. This flag specifies if a DHCP server is authoritative for a domain.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

authority is associated with the field use_authority (see use flag).

bootfile

`bootfile`

The name of a file that DHCP clients need to boot. This setting overrides the Grid level setting.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The name of the server on which a boot file is stored. This setting overrides the Grid level setting.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

ddns_domainname

`ddns_domainname`

The member DDNS domain name value.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

ddns_generate_hostname

Determines the ability of a member DHCP server to generate a host name and update DNS with this host name when it receives a DHCP REQUEST message that does not include a host name.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_retry_interval

ddns_retry_interval

Determines the retry interval when the member DHCP server makes repeated attempts to send DDNS updates to a DNS server.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

ddns_retry_interval is associated with the field use_retry_ddns_updates (see use flag).

ddns_server_always_updates

ddns_server_always_updates

Determines that only the DHCP server is allowed to update DNS, regardless of the requests from the DHCP clients. This setting overrides the Grid level setting.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DDNS TTL (Dynamic DNS Time To Live) value specifies the number of seconds an IP address for the name is cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_update_fixed_addresses

`ddns_update_fixed_addresses`

Determines if the member DHCP server's ability to update the A and PTR records with a fixed address is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_update_fixed_addresses is associated with the field use_ddns_update_fixed_addresses (see use flag).

ddns_use_option81

`ddns_use_option81`

Determines if support for option 81 is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

ddns_zone_primaries

`ddns_zone_primaries`

An ordered list of zone primaries that will receive DDNS updates.

Type

A/An Ddns Zone Primary struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

deny_bootp

`deny_bootp`

Determines if a BOOTP server denies BOOTP request or not. This setting overrides the Grid level setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

dhcp_utilization

`dhcp_utilization`

The percentage of the total DHCP utilization of DHCP objects belonging to the Grid Member multiplied by 1000. This is the percentage of the total number of available IP addresses from all the DHCP objects belonging to the Grid Member versus the total number of all IP addresses in all of the DHCP objects on the Grid

Member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

`dhcp_utilization_status`

A string describing the utilization level of DHCP objects that belong to the Grid Member.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

dns_update_style

`dns_update_style`

The update style for dynamic DNS updates.

Type

String.

Valid values are:

- INTERIM
- STANDARD

Create

The default value is *The default value is determined bythe Grid DHCP properties*.

Search

The field is not available for search.

Notes

dns_update_style is associated with the field use_dns_update_style (see use flag).

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the DHCP objects on the Grid Member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

email_list

`email_list`

The email_list value of a member DHCP server.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

`enable_ddns`

Determines if the member DHCP server's ability to send DDNS updates is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp

`enable_dhcp`

Determines if the DHCP service of a member is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_dhcp_on_ipv6_lan2

`enable_dhcp_on_ipv6_lan2`

Determines if the DHCP service on the IPv6 LAN2 interface is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dhcp_on_lan2

`enable_dhcp_on_lan2`

Determines if the DHCP service on the LAN2 interface is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dhcp_thresholds

enable_dhcp_thresholds

Represents the watermarks above or below which address usage in a network is unexpected and might warrant your attention. This setting overrides the Grid level setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_dhcpv6_service

enable_dhcpv6_service

Determines if DHCPv6 service for the member is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_email_warnings

enable_email_warnings

Determines if e-mail warnings are enabled or disabled. When DHCP threshold is enabled and DHCP address usage crosses a watermark threshold, the appliance sends an e-mail notification to an administrator.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_fingerprint

enable_fingerprint

Determines if fingerprint feature is enabled on this member. If you enable this feature, the server will match a fingerprint for incoming lease requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_fingerprint is associated with the field use_enable_fingerprint (see use flag).

enable_gss_tsig

enable_gss_tsig

Determines whether the appliance is enabled to receive GSS-TSIG authenticated updates from DHCP clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_gss_tsig is associated with the field use_enable_gss_tsig (see use flag).

enable_hostname_rewrite

enable_hostname_rewrite

Determines if the Grid member's host name rewrite feature is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_hostname_rewrite is associated with the field use_enable_hostname_rewrite (see use flag).

enable_leasequery

`enable_leasequery`

Determines if lease query is allowed or not. This setting overrides the Grid-level setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_leasequery is associated with the field use_enable_leasequery (see use flag).

enable_snmp_warnings

`enable_snmp_warnings`

Determines if SNMP warnings are enabled or disabled on this DHCP member. When DHCP threshold is enabled and DHCP address usage crosses a watermark threshold, the appliance sends an SNMP trap to the trap receiver that was defined for the Grid member level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the

object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

failover_association_ip_count

`failover_association_ip_count`

Total number of IPs associated with IPv4 DHCP failover associations for the member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The failover_association_ip_count cannot be updated.

failover_association_ip_count cannot be written.

failover_association_utilization

`failover_association_utilization`

Failover association utilization percentage.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The failover_association_utilization cannot be updated.

failover_association_utilization cannot be written.

gss_tsig_keys

`gss_tsig_keys`

The list of GSS-TSIG keys for a member DHCP object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

gss_tsig_keys is associated with the field use_gss_tsig_keys (see use flag).

high_water_mark

`high_water_mark`

Determines the high watermark value of a member DHCP server. If the percentage of allocated addresses exceeds this watermark, the appliance makes a syslog entry and sends an e-mail notification (if enabled).

Specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

Notes

high_water_mark is associated with the field use_enable_dhcp_thresholds (see use flag).

high_water_mark_reset

`high_water_mark_reset`

Determines the high watermark reset value of a member DHCP server. If the percentage of allocated addresses drops below this value, a corresponding SNMP trap is reset.

Specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

Notes

high_water_mark_reset is associated with the field use_enable_dhcp_thresholds (see use flag).

host_name

`host_name`

Host name of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The host_name is part of the base object.

The host_name cannot be updated.

host_name cannot be written.

hostname_rewrite_policy

`hostname_rewrite_policy`

The hostname rewrite policy that is in the protocol hostname rewrite policies array of the Grid DHCP object. This attribute is mandatory if enable_hostname_rewrite is "true".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

hostname_rewrite_policy is associated with the field use_enable_hostname_rewrite (see use flag).

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

Determines if the ignore DHCP option list request flag of a Grid member DHCP is enabled or not. If this flag is set to true all available DHCP options will be returned to the client.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ignore_id

`ignore_id`

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses. Valid values are “NONE”, “CLIENT”, or “MACADDR”. The default is “NONE”.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

ignore_id is associated with the field use_ignore_id (see use flag).

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

immediate_fa_configuration

`immediate_fa_configuration`

Determines if the Immediate Fixed address configuration apply feature for the DHCP member is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

immediate_fa_configuration is associated with the field use_immediate_fa_configuration (see use flag).

ipv4addr

`ipv4addr`

The IPv4 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

The ipv4addr cannot be updated.

ipv4addr cannot be written.

ipv6_ddns_domainname

`ipv6_ddns_domainname`

The member DDNS IPv6 domain name value.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_ddns_domainname is associated with the field use_ipv6_ddns_domainname (see use flag).

ipv6_ddns_enable_option_fqdn

`ipv6_ddns_enable_option_fqdn`

Controls whether the FQDN option sent by the DHCPv6 client is to be used, or if the server can automatically generate the FQDN.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_ddns_enable_option_fqdn is associated with the field use_ipv6_ddns_enable_option_fqdn (see use flag).

ipv6_ddns_hostname

`ipv6_ddns_hostname`

The member IPv6 DDNS hostname value.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_ddns_hostname is associated with the field use_ipv6_ddns_hostname (see use flag).

ipv6_ddns_server_always_updates

`ipv6_ddns_server_always_updates`

Determines if the server always updates DNS or updates only if requested by the client.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ipv6_ddns_ttl

`ipv6_ddns_ttl`

The member IPv6 DDNS TTL value.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ipv6_ddns_ttl is associated with the field use_ipv6_ddns_ttl (see use flag).

ipv6_dns_update_style

`ipv6_dns_update_style`

The update style for dynamic DHCPv6 DNS updates.

Type

String.

Valid values are:

- INTERIM
- STANDARD

Create

The default value is *The default value is determined bythe Grid DHCP properties*.

Search

The field is not available for search.

Notes

ipv6_dns_update_style is associated with the field use_ipv6_dns_update_style (see use flag).

ipv6_domain_name

ipv6_domain_name

The IPv6 domain name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_domain_name is associated with the field use_ipv6_domain_name (see use flag).

ipv6_domain_name_servers

ipv6_domain_name_servers

The comma separated list of domain name server addresses in IPv6 address format.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_domain_name_servers is associated with the field use_ipv6_domain_name_servers (see use flag).

ipv6_enable_ddns

ipv6_enable_ddns

Determines if sending DDNS updates by the member DHCPv6 server is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_enable_ddns is associated with the field use_ipv6_enable_ddns (see use flag).

ipv6_enable_gss_tsig

`ipv6_enable_gss_tsig`

Determines whether the appliance is enabled to receive GSS-TSIG authenticated updates from DHCPv6 clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_enable_gss_tsig is associated with the field use_ipv6_enable_gss_tsig (see use flag).

ipv6_enable_lease_scavenging

`ipv6_enable_lease_scavenging`

Indicates whether DHCPv6 lease scavenging is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_enable_lease_scavenging is associated with the field use_ipv6_lease_scavenging (see use flag).

ipv6_enable_retry_updates

`ipv6_enable_retry_updates`

Determines if the DHCPv6 server retries failed dynamic DNS updates or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

ipv6_enable_retry_updates is associated with the field use_ipv6_enable_retry_updates (see use flag).

ipv6_generate_hostname

`ipv6_generate_hostname`

Determines if the server generates the hostname if it is not sent by the client.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_generate_hostname is associated with the field use_ipv6_generate_hostname (see use flag).

ipv6_gss_tsig_keys

`ipv6_gss_tsig_keys`

The list of GSS-TSIG keys for a member DHCPv6 object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_gss_tsig_keys is associated with the field use_ipv6_gss_tsig_keys (see use flag).

ipv6_kdc_server

`ipv6_kdc_server`

Determines the IPv6 address or FQDN of the Kerberos server for DHCPv6 GSS-TSIG authentication. This setting overrides the Grid level setting.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_kdc_server is associated with the field use_ipv6_enable_gss_tsig (see use flag).

ipv6_lease_scavenging_time

`ipv6_lease_scavenging_time`

The member-level grace period (in seconds) to keep an expired lease before it is deleted by the scavenging process.

Type

Unsigned integer.

Create

The default value is *604800*.

Search

The field is not available for search.

Notes

ipv6_lease_scavenging_time is associated with the field use_ipv6_lease_scavenging (see use flag).

ipv6_microsoft_code_page

`ipv6_microsoft_code_page`

The Microsoft client DHCP IPv6 code page value of a Grid member. This value is the hostname translation code page for Microsoft DHCP IPv6 clients and overrides the Grid level Microsoft DHCP IPv6 client code page.

Type

String.

Valid values are:

- Arabic (1256)
- Arabic (ISO-8859-6)
- Baltic (1257)
- Baltic (775)
- Baltic (ISO-8859-4)
- Central Europe (1250)
- Cyrillic (1251)
- Cyrillic (855)
- Cyrillic (ISO-8859-5)
- Greek (1253)
- Greek (737)
- Greek (ISO-8859-7)
- Hebrew (1255)
- Hebrew (862)
- Hebrew (ISO-8859-8)
- Japanese Shift-JIS (932)
- Korean (949)
- Latin 1 (ISO-8859-1)
- Latin 2 (ISO-8859-2)
- Latin 3 (ISO-8859-3)
- Latin 9 (ISO-8859-15)
- Latin I (1252)
- Latin II (852)
- Multilingual Latin I (850)
- None
- Russian (866)
- Simplified Chinese GBK (936)
- Thai (874)
- Traditional Chinese Big5 (950)
- Turkish (1254)
- Turkish (857)
- Turkish (ISO-8859-9)
- US (437)
- Vietnam (1258)

Create

The default value is *None*.

Search

The field is not available for search.

Notes

ipv6_microsoft_code_page is associated with the field use_ipv6_microsoft_code_page (see use flag).

ipv6_options

`ipv6_options`

An array of DHCP option structs that lists the DHCPv6 options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ipv6_options is associated with the field use_ipv6_options (see use flag).

ipv6_recycle_leases

`ipv6_recycle_leases`

Determines if the IPv6 recycle leases feature is enabled or not. If the feature is enabled, leases are kept in the Recycle Bin until one week after lease expiration. When the feature is disabled, the leases are irrecoverably deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

ipv6_recycle_leases is associated with the field use_ipv6_recycle_leases (see use flag).

ipv6_remember_expired_client_association

`ipv6_remember_expired_client_association`

Enable binding for expired DHCPv6 leases.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_remember_expired_client_association is associated with the field use_ipv6_lease_scavenging (see use flag).

ipv6_retry_updates_interval

`ipv6_retry_updates_interval`

Determines the retry interval when the member DHCPv6 server makes repeated attempts to send DDNS updates to a DNS server.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

ipv6_retry_updates_interval is associated with the field use_ipv6_enable_retry_updates (see use flag).

ipv6_server_duid

`ipv6_server_duid`

The server DHCPv6 unique identifier (DUID) for the Grid member.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_update_dns_on_lease_renewal

`ipv6_update_dns_on_lease_renewal`

Controls whether the DHCPv6 server updates DNS when an IPv6 DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_update_dns_on_lease_renewal is associated with the field use_ipv6_update_dns_on_lease_renewal (see use flag).

ipv6addr

`ipv6addr`

The IPv6 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

The ipv6addr cannot be updated.

ipv6addr cannot be written.

kdc_server

`kdc_server`

The IPv4 address or FQDN of the Kerberos server for DHCPv4 GSS-TSIG authentication. This setting overrides the Grid level setting.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

kdc_server is associated with the field use_enable_gss_tsig (see use flag).

lease_per_client_settings

`lease_per_client_settings`

Defines how the appliance releases DHCP leases. Valid values are "RELEASE_MACHING_ID", "NEVER_RELEASE", or "ONE_LEASE_PER_CLIENT". The default is "RELEASE_MATCHING_ID".

Type

String.

Valid values are:

- NEVER_RELEASE
- ONE_LEASE_PER_CLIENT
- RELEASE_MATCHING_ID

Create

The default value is *RELEASE_MATCHING_ID*.

Search

The field is not available for search.

Notes

lease_per_client_settings is associated with the field use_lease_per_client_settings (see use flag).

lease_scavenge_time

`lease_scavenge_time`

Determines the lease scavenging time value. When this field is set, the appliance permanently deletes the free and backup leases that remain in the database beyond a specified period of time.

To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

log_lease_events

`log_lease_events`

This value specifies whether the grid member logs lease events. This setting overrides the Grid level setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

log_lease_events is associated with the field use_log_lease_events (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the Grid member.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

`low_water_mark`

Determines the low watermark value. If the percent of allocated addresses drops below this watermark, the appliance makes a syslog entry and sends an e-mail notification (if enabled).

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

low_water_mark is associated with the field use_enable_dhcp_thresholds (see use flag).

low_water_mark_reset

`low_water_mark_reset`

Determines the low watermark reset value. If the percentage of allocated addresses exceeds this value, a corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

low_water_mark_reset is associated with the field use_enable_dhcp_thresholds (see use flag).

max_failover_association_ip_count

`max_failover_association_ip_count`

Maximum number of IPs that can be associated with IPv4 DHCP failover associations for the member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The max_failover_association_ip_count cannot be updated.

max_failover_association_ip_count cannot be written.

microsoft_code_page

`microsoft_code_page`

The Microsoft client DHCP IPv4 code page value of a grid member. This value is the hostname translation code page for Microsoft DHCP IPv4 clients and overrides the Grid level Microsoft DHCP IPv4 client code page.

Type

String.

Valid values are:

- Arabic (1256)
- Arabic (ISO-8859-6)
- Baltic (1257)
- Baltic (775)
- Baltic (ISO-8859-4)
- Central Europe (1250)
- Cyrillic (1251)
- Cyrillic (855)

- Cyrillic (ISO-8859-5)
- Greek (1253)
- Greek (737)
- Greek (ISO-8859-7)
- Hebrew (1255)
- Hebrew (862)
- Hebrew (ISO-8859-8)
- Japanese Shift-JIS (932)
- Korean (949)
- Latin 1 (ISO-8859-1)
- Latin 2 (ISO-8859-2)
- Latin 3 (ISO-8859-3)
- Latin 9 (ISO-8859-15)
- Latin I (1252)
- Latin II (852)
- Multilingual Latin I (850)
- None
- Russian (866)
- Simplified Chinese GBK (936)
- Thai (874)
- Traditional Chinese Big5 (950)
- Turkish (1254)
- Turkish (857)
- Turkish (ISO-8859-9)
- US (437)
- Vietnam (1258)

Create

The default value is *None*.

Search

The field is not available for search.

Notes

microsoft_code_page is associated with the field use_microsoft_code_page (see use flag).

nextserver

`nextserver`

The next server value of a member DHCP server. This value is the IP address or name of the boot file server on which the boot file is stored.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

option60_match_rules

option60_match_rules

The list of option 60 match rules.

Type

A/An Option 60 Match Rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

ping_count

ping_count

Specifies the number of pings that the Infoblox appliance sends to an IP address to verify that it is not in use. Values are from 0 to 10, where 0 disables pings.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

Notes

ping_count is associated with the field use_ping_count (see use flag).

ping_timeout

`ping_timeout`

Indicates the number of milliseconds the appliance waits for a response to its ping.

Valid values are 100, 500, 1000, 2000, 3000, 4000 and 5000 milliseconds.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

Notes

ping_timeout is associated with the field use_ping_timeout (see use flag).

preferred_lifetime

`preferred_lifetime`

The preferred lifetime value.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

prefix_length_mode

`prefix_length_mode`

The Prefix length mode for DHCPv6.

Type

String.

Valid values are:

- EXACT
- IGNORE
- MAXIMUM
- MINIMUM
- PREFER

Create

The default value is *The default value is determined bythe Grid DHCP properties*.

Search

The field is not available for search.

Notes

prefix_length_mode is associated with the field use_prefix_length_mode (see use flag).

pxe_lease_time

`pxe_lease_time`

Specifies the duration of time it takes a host to connect to a boot server, such as a TFTP server, and download the file it needs to boot.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

recycle_leases

`recycle_leases`

Determines if the recycle leases feature is enabled or not. If you enabled this feature and then delete a DHCP range, the appliance stores active leases from this range up to one week after the leases expires.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

retry_ddns_updates

`retry_ddns_updates`

Indicates whether the DHCP server makes repeated attempts to send DDNS updates to a DNS server.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

retry_ddns_updates is associated with the field use_retry_ddns_updates (see use flag).

static_hosts

`static_hosts`

The number of static DHCP addresses configured in DHCP objects that belong to the Grid Member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

syslog_facility

`syslog_facility`

The syslog facility is the location on the syslog server to which you want to sort the syslog messages.

Type

String.

Valid values are:

- DAEMON
- LOCAL0
- LOCAL1
- LOCAL2
- LOCAL3
- LOCAL4
- LOCAL5
- LOCAL6
- LOCAL7

Create

The default value is *DAEMON*.

Search

The field is not available for search.

Notes

syslog_facility is associated with the field use_syslog_facility (see use flag).

total_hosts

`total_hosts`

The total number of DHCP addresses configured in DHCP objects that belong to the Grid Member.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

Controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field

use_update_dns_on_lease_renewal (see use flag).

use_authority

use_authority

Use flag for: authority

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

use_bootfile

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

use_bootserver

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

use_ddns_domainname

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

`use_ddns_ttl`

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_update_fixed_addresses

`use_ddns_update_fixed_addresses`

Use flag for: ddns_update_fixed_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

use_ddns_use_option81

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

use_deny_bootp

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns_update_style

use_dns_update_style

Use flag for: dns_update_style

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

use_email_list

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

`use_enable_dhcp_thresholds`

Use flag for: enable_dhcp_thresholds , high_water_mark, high_water_mark_reset, low_water_mark, low_water_mark_reset

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_fingerprint

`use_enable_fingerprint`

Use flag for: enable_fingerprint

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_gss_tsig

use_enable_gss_tsig

Use flag for: kdc_server , enable_gss_tsig

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_hostname_rewrite

use_enable_hostname_rewrite

Use flag for: enable_hostname_rewrite , hostname_rewrite_policy

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_leasequery

use_enable_leasequery

Use flag for: enable_leasequery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_one_lease_per_client

use_enable_one_lease_per_client

Use flag for: enable_one_lease_per_client

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_gss_tsig_keys

use_gss_tsig_keys

Use flag for: gss_tsig_keys

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_id

use_ignore_id

Use flag for: ignore_id

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_immediate_fa_configuration

use_immediate_fa_configuration

Use flag for: immediate_fa_configuration

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_ddns_domainname

use_ipv6_ddns_domainname

Use flag for: ipv6_ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_ddns_enable_option_fqdn

use_ipv6_ddns_enable_option_fqdn

Use flag for: ipv6_ddns_enable_option_fqdn

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_ddns_hostname

use_ipv6_ddns_hostname

Use flag for: ipv6_ddns_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_ddns_ttl

`use_ipv6_ddns_ttl`

Use flag for: ipv6_ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_dns_update_style

`use_ipv6_dns_update_style`

Use flag for: ipv6_dns_update_style

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_domain_name

`use_ipv6_domain_name`

Use flag for: ipv6_domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_domain_name_servers

`use_ipv6_domain_name_servers`

Use flag for: ipv6_domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_enable_ddns

`use_ipv6_enable_ddns`

Use flag for: ipv6_enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_enable_gss_tsig

`use_ipv6_enable_gss_tsig`

Use flag for: ipv6_kdc_server , ipv6_enable_gss_tsig

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_enable_retry_updates

`use_ipv6_enable_retry_updates`

Use flag for: ipv6_enable_retry_updates , ipv6_retry_updates_interval

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_generate_hostname

`use_ipv6_generate_hostname`

Use flag for: ipv6_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_gss_tsig_keys

`use_ipv6_gss_tsig_keys`

Use flag for: ipv6_gss_tsig_keys

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_lease_scavenging

`use_ipv6_lease_scavenging`

Use flag for: ipv6_enable_lease_scavenging , ipv6_lease_scavenging_time, ipv6_remember_expired_client_association

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_microsoft_code_page

`use_ipv6_microsoft_code_page`

Use flag for: ipv6_microsoft_code_page

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_options

`use_ipv6_options`

Use flag for: ipv6_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_recycle_leases

`use_ipv6_recycle_leases`

Use flag for: ipv6_recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_update_dns_on_lease_renewal

use_ipv6_update_dns_on_lease_renewal

Use flag for: ipv6_update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_per_client_settings

use_lease_per_client_settings

Use flag for: lease_per_client_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

use_lease_scavenge_time

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_log_lease_events

use_log_lease_events

Use flag for: log_lease_events

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_microsoft_code_page

`use_microsoft_code_page`

Use flag for: microsoft_code_page

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

`use_nextserver`

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ping_count

use_ping_count

Use flag for: ping_count

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ping_timeout

use_ping_timeout

Use flag for: ping_timeout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

use_preferred_lifetime

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_prefix_length_mode

`use_prefix_length_mode`

Use flag for: prefix_length_mode

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

`use_pxe_lease_time`

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_retry_ddns_updates

use_retry_ddns_updates

Use flag for: ddns_retry_interval , retry_ddns_updates

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_syslog_facility

use_syslog_facility

Use flag for: syslog_facility

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

use_update_dns_on_lease_renewal

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

use_valid_lifetime

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

The valid lifetime for Grid Member DHCP. Specifies the length of time addresses that are assigned to DHCPv6 clients remain in the valid state.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Function Calls

clear_nac_auth_cache

Use this function to clear the NAC authentication cache.

This function does not support multiple object matches when called as part of an

atomic insertion operation.

Input fields

mac_address (String.) The MAC address used to clear specific authentication cache entry. If the MAC address is not present, the entire authentication cache is cleared. The default value is “None”.

Output fields

None

purge_ifmap_data

Use this function to purge IF-MAP data published by the member.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
auth_server_group	String	N	N	N	N/A
authn_captive_portal	String	N	N	N	N/A
authn_captive_portal_authenticated_filter	String	N	N	N	N/A
authn_captive_portal_enabled	Bool	N	N	N	N/A
authn_captive_portal_guest_filter	String	N	N	N	N/A
authn_server_group_enabled	Bool	N	N	N	N/A
authority	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_retry_interval	Unsigned int	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
ddns_zone_primaries	[struct]	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
dns_update_style	String	N	N	N	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A

enable_dhcp	Bool	N	N	N	N/A
enable_dhcp_on_ipv6_lan2	Bool	N	N	N	N/A
enable_dhcp_on_lan2	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_dhcpv6_service	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_fingerprint	Bool	N	N	N	N/A
enable_gss_tsig	Bool	N	N	N	N/A
enable_hostname_rewrite	Bool	N	N	N	N/A
enable_leasequery	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
failover_association_ip_count	Unsigned int	N	Y	N	N/A
failover_association_utilization	Unsigned int	N	Y	N	N/A
gss_tsig_keys	[obj]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
host_name	String	N	Y	Y	= ~
hostname_rewrite_policy	String	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A
immediate_fa_configuration	Bool	N	N	N	N/A
ipv4addr	String	N	Y	Y	= ~
ipv6_ddns_domainname	String	N	N	N	N/A
ipv6_ddns_enable_option_fqdn	Bool	N	N	N	N/A
ipv6_ddns_hostname	String	N	N	N	N/A
ipv6_ddns_server_always_updates	Bool	N	N	N	N/A
ipv6_ddns_ttl	Unsigned int	N	N	N	N/A
ipv6_dns_update_style	String	N	N	N	N/A
ipv6_domain_name	String	N	N	N	N/A
ipv6_domain_name_servers	[String]	N	N	N	N/A
ipv6_enable_ddns	Bool	N	N	N	N/A
ipv6_enable_gss_tsig	Bool	N	N	N	N/A
ipv6_enable_lease_scavenging	Bool	N	N	N	N/A
ipv6_enable_retry_updates	Bool	N	N	N	N/A
ipv6_generate_hostname	Bool	N	N	N	N/A
ipv6_gss_tsig_keys	[obj]	N	N	N	N/A
ipv6_kdc_server	String	N	N	N	N/A
ipv6_lease_scavenging_time	Unsigned int	N	N	N	N/A
ipv6_microsoft_code_page	String	N	N	N	N/A
ipv6_options	[struct]	N	N	N	N/A
ipv6_recycle_leases	Bool	N	N	N	N/A
ipv6_remember_expired_client_association	Bool	N	N	N	N/A
ipv6_retry_updates_interval	Unsigned int	N	N	N	N/A
ipv6_server_duid	String	N	N	N	N/A

ipv6_update_dns_on_lease_renewal	Bool	N	N	N	N/A
ipv6addr	String	N	Y	Y	= ~
kdc_server	String	N	N	N	N/A
lease_per_client_settings	String	N	N	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
log_lease_events	Bool	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
max_failover_association_ip_count	Unsigned int	N	Y	N	N/A
microsoft_code_page	String	N	N	N	N/A
nextserver	String	N	N	N	N/A
option60_match_rules	[struct]	N	N	N	N/A
options	[struct]	N	N	N	N/A
ping_count	Unsigned int	N	N	N	N/A
ping_timeout	Unsigned int	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
prefix_length_mode	String	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
retry_ddns_updates	Bool	N	N	N	N/A
static_hosts	Unsigned int	N	Y	N	N/A
syslog_facility	String	N	N	N	N/A
total_hosts	Unsigned int	N	Y	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_authority	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_update_fixed_addresses	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_dns_update_style	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_enable_fingerprint	Bool	N	N	N	N/A
use_enable_gss_tsig	Bool	N	N	N	N/A
use_enable_hostname_rewrite	Bool	N	N	N	N/A
use_enable_leasequery	Bool	N	N	N	N/A
use_enable_one_lease_per_client	Bool	N	N	N	N/A
use_gss_tsig_keys	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A

use_ignore_id	Bool	N	N	N	N/A
use_immediate_fa_configuration	Bool	N	N	N	N/A
use_ipv6_ddns_domainname	Bool	N	N	N	N/A
use_ipv6_ddns_enable_option_fqdn	Bool	N	N	N	N/A
use_ipv6_ddns_hostname	Bool	N	N	N	N/A
use_ipv6_ddns_ttl	Bool	N	N	N	N/A
use_ipv6_dns_update_style	Bool	N	N	N	N/A
use_ipv6_domain_name	Bool	N	N	N	N/A
use_ipv6_domain_name_servers	Bool	N	N	N	N/A
use_ipv6_enable_ddns	Bool	N	N	N	N/A
use_ipv6_enable_gss_tsig	Bool	N	N	N	N/A
use_ipv6_enable_retry_updates	Bool	N	N	N	N/A
use_ipv6_generate_hostname	Bool	N	N	N	N/A
use_ipv6_gss_tsig_keys	Bool	N	N	N	N/A
use_ipv6_lease_scavenging	Bool	N	N	N	N/A
use_ipv6_microsoft_code_page	Bool	N	N	N	N/A
use_ipv6_options	Bool	N	N	N	N/A
use_ipv6_recycle_leases	Bool	N	N	N	N/A
use_ipv6_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_lease_per_client_settings	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_log_lease_events	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_microsoft_code_page	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_ping_count	Bool	N	N	N	N/A
use_ping_timeout	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_prefix_length_mode	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_retry_ddns_updates	Bool	N	N	N	N/A
use_syslog_facility	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

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member:dns : Member DNS object.

The Grid Member DNS object can be used to configure DNS properties for a Grid member, including enabling or disabling DNS services and other DNS service related parameters. Grid service configurations are inherited by all members. UNBOUND support has been deprecated from NIOS 9.0 onwards.

Object Reference

References to member:dns are object references. The *name* part of a Member DNS object reference has the following components:

- Name of Member DNS

Example:

```
# Using _ref member:dns/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID member:dns/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **host_name, ipv4addr, ipv6addr, uuid**.

add_client_ip_mac_options

`add_client_ip_mac_options`

Add custom IP, MAC and DNS View name ENDS0 options to outgoing recursive queries.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

add_client_ip_mac_options is associated with the field use_add_client_ip_mac_options (see use flag).

additional_ip_list

additional_ip_list

The list of additional IP addresses on which DNS is enabled for a Grid member. Only one of “additional_ip_list” or “additional_ip_list_struct” should be set when modifying the object.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

additional_ip_list_struct

additional_ip_list_struct

The list of additional IP addresses and IP Space Discriminator short names on which DNS is enabled for a Grid member. Only one of “additional_ip_list” or “additional_ip_list_struct” should be set when modifying the object.

Type

A/An Member DNS additional IP structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

allow_gss_tsig_zone_updates

allow_gss_tsig_zone_updates

Determines whether the GSS-TSIG zone updates is enabled for the Grid member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

allow_gss_tsig_zone_updates is associated with the field use_update_setting (see use flag).

allow_query

`allow_query`

Determines if queries from specified IPv4 or IPv6 addresses and networks are enabled or not. The appliance can also use Transaction Signature (TSIG) keys to authenticate the queries. This setting overrides the Grid query settings.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_query is associated with the field use_allow_query (see use flag).

allow_recursive_query

`allow_recursive_query`

Determines if the responses to recursive queries is enabled or not. This setting overrides Grid recursive query settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

allow_recursive_query is associated with the field use_recursive_query_setting (see use flag).

allow_transfer

`allow_transfer`

Allows or rejects zone transfers from specified IPv4 or IPv6 addresses and networks or allows transfers from hosts authenticated by Transaction signature

(TSIG) key. This setting overrides the Grid zone transfer settings.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_transfer is associated with the field use_allow_transfer (see use flag).

allow_update

`allow_update`

Allows or rejects dynamic updates from specified IPv4 or IPv6 addresses, networks or from host authenticated by TSIG key. This setting overrides Grid update settings.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_update is associated with the field use_update_setting (see use flag).

anonymize_response_logging

`anonymize_response_logging`

The flag that indicates whether the anonymization of captured DNS responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

atc_fwd_enable

atc_fwd_enable

Enable DNS recursive query forwarding to Active Trust Cloud.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

attack_mitigation

attack_mitigation

Mitigation settings for DNS attacks.

Type

A/An DNS Attack Mitigation object struct.

Create

The default value is:

```
  { 'detect_chr': { 'enable': True,
                    'high': 80,
                    'interval_max': 100000,
                    'interval_min': 1000,
                    'interval_time': 10,
                    'low': 70},
'detect_chr_grace': 75,
'detect_nxdomain_responses': { 'enable': True,
                               'high': 80,
                               'interval_max': 100000,
                               'interval_min': 1000,
                               'interval_time': 10,
                               'low': 70},
'detect_udp_drop': { 'enable': True,
                     'high': 30,
                     'interval_min': 1000,
                     'interval_time': 10,
                     'low': 20},
'interval': 10}
```

Search

The field is not available for search.

Notes

attack_mitigation is associated with the field use_attack_mitigation (see use flag).

auto_blackhole

auto_blackhole

The auto blackhole settings.

Type

A/An DNS Auto Blackhole settings struct.

Create

The default value is:

```
  { 'enable_fetches_per_server': False,
'enable_fetches_per_zone': False,
'enable_holddown': False,
'fetches_per_server': 500,
'fetches_per_zone': 200,
'fps_freq': 200,
'holddown': 60,
'holddown_threshold': 5,
'holddown_timeout': 1000}
```

Search

The field is not available for search.

Notes

auto_blackhole is associated with the field use_auto_blackhole (see use flag).

auto_create_a_and_ptr_for_lan2

`auto_create_a_and_ptr_for_lan2`

Determines if the auto-generation of A and PTR records for the LAN2 IP address is enabled or not, if DNS service is enabled on LAN2.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

auto_create_aaaa_and_ipv6ptr_for_lan2

`auto_create_aaaa_and_ipv6ptr_for_lan2`

Determines if auto-generation of AAAA and IPv6 PTR records for LAN2 IPv6 address is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

auto_sort_views

auto_sort_views

Determines if a Grid member to automatically sort DNS views is enabled or not. The order of the DNS views determines the order in which the appliance checks the match lists.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

bind_check_names_policy

bind_check_names_policy

The BIND check names policy, which indicates the action the appliance takes when it encounters host names that do not comply with the Strict Hostname Checking policy. This method applies only if the host name restriction policy is set to 'Strict Hostname Checking'.

Type

String.

Valid values are:

- FAIL
- WARN

Create

The default value is *WARN*.

Search

The field is not available for search.

bind_hostname_directive

bind_hostname_directive

The value of the hostname directive for BIND.

Type

String.

Valid values are:

- HOSTNAME
- NONE
- USER_DEFINED

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

bind_hostname_directive is associated with the field use_bind_hostname_directive (see use flag).

bind_hostname_directive_fqdn

`bind_hostname_directive_fqdn`

The value of the user-defined hostname directive for BIND. To enable user-defined hostname directive, you must set the bind_hostname_directive to “USER_DEFINED”.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

blackhole_list

`blackhole_list`

The list of IPv4 or IPv6 addresses and networks from which DNS queries are blocked. This setting overrides the Grid blackhole_list.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

blackhole_list is associated with the field use_blacklist (see use flag).

blacklist_action

`blacklist_action`

The action to perform when a domain name matches the pattern defined in a rule that is specified by the blacklist_ruleset method.

Type

String.

Valid values are:

- REDIRECT
- REFUSE

Create

The default value is *REDIRECT*.

Search

The field is not available for search.

Notes

blacklist_action is associated with the field use_blacklist (see use flag).

blacklist_log_query

`blacklist_log_query`

Determines if blacklist redirection queries are logged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

blacklist_log_query is associated with the field use_blacklist (see use flag).

blacklist_redirect_addresses

`blacklist_redirect_addresses`

The IP addresses the appliance includes in the response it sends in place of a blacklisted IP address.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

blacklist_redirect_addresses is associated with the field use_blacklist (see use flag).

blacklist_redirect_ttl

blacklist_redirect_ttl

The TTL value of the synthetic DNS responses that result from blacklist redirection.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

blacklist_redirect_ttl is associated with the field use_blacklist (see use flag).

blacklist_rulesets

blacklist_rulesets

The DNS Ruleset object names assigned at the Grid level for blacklist redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

blacklist_rulesets is associated with the field use_blacklist (see use flag).

capture_dns_queries_on_all_domains

capture_dns_queries_on_all_domains

The flag that indicates whether the capture of DNS queries for all domains is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

capture_dns_queries_on_all_domains is associated with the field use_capture_dns_queries_on_all_domains (see use flag).

check_names_for_ddns_and_zone_transfer

`check_names_for_ddns_and_zone_transfer`

Determines whether the application of BIND check-names for zone transfers and DDNS updates are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

copy_client_ip_mac_options

`copy_client_ip_mac_options`

Copy custom IP, MAC and DNS View name ENDS0 options from incoming to outgoing recursive queries.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

copy_client_ip_mac_options is associated with the field use_copy_client_ip_mac_options (see use flag).

copy_xfer_to_notify

`copy_xfer_to_notify`

Copies the allowed IPs from the zone transfer list into the also-notify statement in the named.conf file.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

copy_xfer_to_notify is associated with the field use_copy_xfer_to_notify (see use flag).

custom_root_name_servers

`custom_root_name_servers`

The list of custom root name servers. You can either select and use Internet root name servers or specify custom root name servers by providing a host name and IP address to which the Infoblox appliance can send queries.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

custom_root_name_servers is associated with the field use_root_name_server (see use flag).

disable_edns

`disable_edns`

The EDNS0 support for queries that require recursive resolution on Grid members.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

disable_edns is associated with the field use_disable_edns (see use flag).

dns64_groups

`dns64_groups`

The list of DNS64 synthesis groups associated with this member.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

dns64_groups is associated with the field use_dns64 (see use flag).

dns_cache_acceleration_status

`dns_cache_acceleration_status`

The DNS cache acceleration status.

Type

String.

Search

The field is not available for search.

Notes

The dns_cache_acceleration_status cannot be updated.

dns_cache_acceleration_status cannot be written.

dns_cache_acceleration_ttl

`dns_cache_acceleration_ttl`

The minimum TTL value, in seconds, that a DNS record must have in order for it to be cached by the DNS Cache Acceleration service.

An integer from 1 to 65000 that represents the TTL in seconds.

Type

Unsigned integer.

Create

The default value is *1*.

Search

The field is not available for search.

Notes

dns_cache_acceleration_ttl is associated with the field use_dns_cache_acceleration_ttl (see use flag).

dns_health_check_anycast_control

`dns_health_check_anycast_control`

The flag that indicates whether the anycast failure (BFD session down) is enabled

on member failure or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

dns_health_check_anycast_control is associated with the field use_dns_health_check (see use flag).

dns_health_check_domain_list

`dns_health_check_domain_list`

The list of domain names for the DNS health check.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

dns_health_check_domain_list is associated with the field use_dns_health_check (see use flag).

dns_health_check_interval

`dns_health_check_interval`

The time interval (in seconds) for DNS health check.

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

Notes

dns_health_check_interval is associated with the field use_dns_health_check (see use flag).

dns_health_check_recursion_flag

dns_health_check_recursion_flag

The flag that indicates whether the recursive DNS health check is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

dns_health_check_recursion_flag is associated with the field use_dns_health_check (see use flag).

dns_health_check_retries

dns_health_check_retries

The number of DNS health check retries.

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

Notes

dns_health_check_retries is associated with the field use_dns_health_check (see use flag).

dns_health_check_timeout

dns_health_check_timeout

The DNS health check timeout interval (in seconds).

Type

Unsigned integer.

Create

The default value is *3*.

Search

The field is not available for search.

Notes

dns_health_check_timeout is associated with the field use_dns_health_check (see use flag).

dns_notify_transfer_source

`dns_notify_transfer_source`

Determines which IP address is used as the source for DDNS notify and transfer operations.

Type

String.

Valid values are:

- ANY
- IP
- LAN2
- MGMT
- VIP

Create

The default value is *VIP*.

Search

The field is not available for search.

dns_notify_transfer_source_address

`dns_notify_transfer_source_address`

The source address used if dns_notify_transfer_source type is “IP”.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_over_https_endpoint

`dns_over_https_endpoint`

DoH end point. Available in WAPI 2.14 and later

Type

String.

Create

The default value is */dns-query*.

Search

The field is not available for search.

dns_over_https_stream_per_connection

dns_over_https_stream_per_connection

DNS over HTTPS streams per connection. Available in WAPI 2.14 and later

Type

Unsigned integer.

Create

The default value is *64*.

Search

The field is not available for search.

dns_over_tls_service

dns_over_tls_service

Enables DNS over TLS service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_query_capture_file_time_limit

dns_query_capture_file_time_limit

The time limit (in minutes) for the DNS query capture file.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

dns_query_source_address

dns_query_source_address

The source address used if dns_query_source_interface type is “IP”.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_query_source_interface

`dns_query_source_interface`

Determines which IP address is used as the source for DDNS query operations.

Type

String.

Valid values are:

- ANY
- IP
- LAN2
- MGMT
- VIP

Create

The default value is *VIP*.

Search

The field is not available for search.

dns_view_address_settings

`dns_view_address_settings`

Array of notify/query source settings for views.

Type

A/An Notify and query source settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

dnssec_blacklist_enabled

`dnssec_blacklist_enabled`

Determines if the blacklist rules for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_dns64_enabled

`dnssec_dns64_enabled`

Determines if the DNS64 groups for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_enabled

`dnssec_enabled`

Determines if the DNS security extension is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

dnssec_enabled is associated with the field use_dnssec (see use flag).

dnssec_expired_signatures_enabled

`dnssec_expired_signatures_enabled`

Determines when the DNS member accepts expired signatures.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

dnssec_expired_signatures_enabled is associated with the field use_dnssec (see use flag).

dnssec_negative_trust_anchors

`dnssec_negative_trust_anchors`

A list of zones for which the server does not perform DNSSEC validation.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dnssec_nxdomain_enabled

`dnssec_nxdomain_enabled`

Determines if the NXDOMAIN rules for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_rpz_enabled

`dnssec_rpz_enabled`

Determines if the RPZ policies for DNSSEC-enabled clients are enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dnssec_trusted_keys

dnssec_trusted_keys

The list of trusted keys for the DNSSEC feature.

Type

A/An DNSSEC Trusted Key struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

dnssec_trusted_keys is associated with the field use_dnssec (see use flag).

dnssec_validation_enabled

dnssec_validation_enabled

Determines if the DNS security validation is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

dnssec_validation_enabled is associated with the field use_dnssec (see use flag).

dnstap_identity

dnstap_identity

The DNSTAP identity string for this member.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

dnstap_setting

`dnstap_setting`

The DNSTAP settings with enhanced fields.

Type

A/An DNSTAP Setting struct.

Create

The default value is:

```
{'dnstap_receiver_port': 6000}
```

Search

The field is not available for search.

Notes

dnstap_setting is associated with the field use_dnstap_setting (see use flag).

doh_https_session_duration

`doh_https_session_duration`

DNS over HTTPS sessions duration.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

doh_service

`doh_service`

Enables DNS over HTTPS service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

domains_to_capture_dns_queries

domains_to_capture_dns_queries

The list of domains for DNS query capture.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dtc_dns_queries_specific_behavior

dtc_dns_queries_specific_behavior

Setting to control specific behavior for DTC DNS responses for incoming lbdn matched queries.

Type

String.

Valid values are:

- DNS_RESPONSE_IF_NO_DTC
- DROP_LBDN_MATCHED_QUERY
- DTC_RESPONSE_ANYWAY

Create

The default value is *DNS_RESPONSE_IF_NO_DTC*.

Search

The field is not available for search.

Notes

dtc_dns_queries_specific_behavior is associated with the field use_dtc_dns_queries_specific_behavior (see use flag).

dtc_edns_prefer_client_subnet

dtc_edns_prefer_client_subnet

Determines whether to prefer the client address from the edns-client-subnet option for DTC or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

dtc_edns_prefer_client_subnet is associated with the field use_dtc_edns_prefer_client_subnet (see use flag).

dtc_health_source

`dtc_health_source`

The health check source type.

Type

String.

Valid values are:

- ANY
- IP
- LAN2
- MGMT
- VIP

Create

The default value is *VIP*.

Search

The field is not available for search.

dtc_health_source_address

`dtc_health_source_address`

The source address used if dtc_health_source type is “IP”.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

edns_udp_size

`edns_udp_size`

Advertises the EDNS0 buffer size to the upstream server. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

Notes

edns_udp_size is associated with the field use_edns_udp_size (see use flag).

enable_blackhole

`enable_blackhole`

Determines if the blocking of DNS queries is enabled or not. This setting overrides the Grid enable_blackhole settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_blackhole is associated with the field use_blackhole (see use flag).

enable_blacklist

`enable_blacklist`

Determines if a blacklist is enabled or not on the Grid member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_blacklist is associated with the field use_blacklist (see use flag).

enable_capture_dns_queries

`enable_capture_dns_queries`

The flag that indicates whether the capture of DNS queries is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_capture_dns_queries is associated with the field use_enable_capture_dns (see use flag).

enable_capture_dns_responses

`enable_capture_dns_responses`

The flag that indicates whether the capture of DNS responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_capture_dns_responses is associated with the field use_enable_capture_dns (see use flag).

enable_dns

`enable_dns`

Determines if the DNS service of a member is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_dns64

`enable_dns64`

Determines if the DNS64 support is enabled or not for this member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dns64 is associated with the field use_dns64 (see use flag).

enable_dns_cache_acceleration

`enable_dns_cache_acceleration`

Determines if the DNS Cache Acceleration service is enabled or not for a member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_dns_health_check

`enable_dns_health_check`

The flag that indicates whether the DNS health check is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dns_health_check is associated with the field use_dns_health_check (see use flag).

enable_dnstap_auth_queries

`enable_dnstap_auth_queries`

Enable DNSTAP for authoritative query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_auth_queries is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_auth_responses

`enable_dnstap_auth_responses`

Enable DNSTAP for authoritative response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_auth_responses is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_client_queries

`enable_dnstap_client_queries`

Enable DNSTAP for client query messages.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

enable_dnstap_client_queries is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_client_responses

enable_dnstap_client_responses

Enable DNSTAP for client response messages.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

enable_dnstap_client_responses is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_forwarder_queries

enable_dnstap_forwarder_queries

Enable DNSTAP for forwarder query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_forwarder_queries is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_forwarder_responses

enable_dnstap_forwarder_responses

Enable DNSTAP for forwarder response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_forwarder_responses is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_logging_type

`enable_dnstap_logging_type`

DNSTAP logging type for this member.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

enable_dnstap_logging_type is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_queries

`enable_dnstap_queries`

Determines whether the query messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_queries is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_resolver_queries

`enable_dnstap_resolver_queries`

Enable DNSTAP for resolver query messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_resolver_queries is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_resolver_responses

`enable_dnstap_resolver_responses`

Enable DNSTAP for resolver response messages.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_resolver_responses is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_responses

`enable_dnstap_responses`

Determines whether the response messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_responses is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_setting

`enable_dnstap_setting`

Indicates whether DNSTAP is enabled for this member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_setting is associated with the field use_dnstap_setting (see use flag).

enable_dnstap_violations_tls

`enable_dnstap_violations_tls`

Determines whether the violations messages need to be forwarded to DNSTAP or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dnstap_violations_tls is associated with the field use_dnstap_setting (see use flag).

enable_excluded_domain_names

`enable_excluded_domain_names`

The flag that indicates whether excluding domain names from captured DNS queries and responses is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_excluded_domain_names is associated with the field use_enable_excluded_domain_names (see use flag).

enable_fixed_rrset_order_fqdns

`enable_fixed_rrset_order_fqdns`

Determines if the fixed RRset order FQDN is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_fixed_rrset_order_fqdns is associated with the field use_fixed_rrset_order_fqdns (see use flag).

enable_ftc

`enable_ftc`

Determines whether Fault Tolerant Caching (FTC) is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ftc is associated with the field use_ftc (see use flag).

enable_gss_tsig

`enable_gss_tsig`

Determines whether the appliance is enabled to receive GSS-TSIG authenticated updates from DHCP clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_gss_tsig is associated with the field use_enable_gss_tsig (see use flag).

enable_notify_source_port

`enable_notify_source_port`

Determines if the notify source port for a member is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_notify_source_port is associated with the field use_source_ports (see use flag).

enable_query_rewrite

`enable_query_rewrite`

Determines if the DNS query rewrite is enabled or not for this member.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_query_rewrite is associated with the field use_enable_query_rewrite (see use flag).

enable_query_source_port

`enable_query_source_port`

Determines if the query source port for a member is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_query_source_port is associated with the field use_source_ports (see use flag).

excluded_domain_names

`excluded_domain_names`

The list of domains that are excluded from DNS query and response capture.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

file_transfer_setting

`file_transfer_setting`

The DNS capture file transfer settings. Include the specified parameter to set the attribute value. Omit the parameter to retrieve the attribute value.

Type

A/An File Transfer Setting struct.

Create

The default value is:

```
{'type': 'FTP'}
```

Search

The field is not available for search.

filter_aaaa

`filter_aaaa`

The type of AAAA filtering for this member DNS object.

Type

String.

Valid values are:

- BREAK_DNSSEC
- NO
- YES

Create

The default value is *NO*.

Search

The field is not available for search.

Notes

filter_aaaa is associated with the field use_filter_aaaa (see use flag).

filter_aaaa_list

`filter_aaaa_list`

The list of IPv4 addresses and networks from which queries are received. AAAA filtering is applied to these addresses.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

filter_aaaa_list is associated with the field use_filter_aaaa (see use flag).

fixed_rrset_order_fqdns

fixed_rrset_order_fqdns

The fixed RRset order FQDN. If this field does not contain an empty value, the appliance will automatically set the enable_fixed_rrset_order_fqdns field to 'true', unless the same request sets the enable field to 'false'.

Type

A/An Fixed RRset order FQDN struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

fixed_rrset_order_fqdns is associated with the field use_fixed_rrset_order_fqdns (see use flag).

forward_only

forward_only

Permits this member to send queries to forwarders only. When the value is "true", the member sends queries to forwarders only, and not to other internal or Internet root servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

forward_only is associated with the field use_forwarders (see use flag).

forward_updates

forward_updates

Allows secondary servers to forward updates to the DNS server. This setting overrides grid update settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

forward_updates is associated with the field use_forward_updates (see use flag).

forwarders

`forwarders`

The forwarders for the member. A forwarder is essentially a name server to which other name servers first send all of their off-site queries. The forwarder builds up a cache of information, avoiding the need for the other name servers to send queries off-site. This setting overrides the Grid level setting.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

forwarders is associated with the field use_forwarders (see use flag).

ftc_expired_record_timeout

`ftc_expired_record_timeout`

The timeout interval (in seconds) after which the expired Fault Tolerant Caching (FTC)record is stale and no longer valid.

Type

Unsigned integer.

Create

The default value is *86400*.

Search

The field is not available for search.

Notes

ftc_expired_record_timeout is associated with the field use_ftc (see use flag).

ftc_expired_record_ttl

`ftc_expired_record_ttl`

The TTL value (in seconds) of the expired Fault Tolerant Caching (FTC) record in DNS responses.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

ftc_expired_record_ttl is associated with the field use_ftc (see use flag).

glue_record_addresses

`glue_record_addresses`

The list of glue record addresses.

Type

A/An 'Member DNS glue record address struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

gss_tsig_keys

`gss_tsig_keys`

The list of GSS-TSIG keys for a member DNS object.

Type

A/An kerberoskey object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

gss_tsig_keys is associated with the field use_gss_tsig_keys (see use flag).

host_name

`host_name`

The host name of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The host_name is part of the base object.

The host_name cannot be updated.

host_name cannot be written.

ipv4addr

`ipv4addr`

The IPv4 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

The ipv4addr cannot be updated.

ipv4addr cannot be written.

ipv6_glue_record_addresses

`ipv6_glue_record_addresses`

The list of IPv6 glue record addresses.

Type

A/An 'Member DNS glue record address struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

ipv6addr

ipv6addr

The IPv6 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

The ipv6addr cannot be updated.

ipv6addr cannot be written.

logging_categories

logging_categories

The logging categories for this DNS member.

Type

A/An Grid logging setting information struct.

Create

The default value is:

```
  { 'log_client': True,
'log_config': True,
'log_database': True,
'log_dnssec': True,
'log_dtc_gslb': False,
'log_dtc_health': False,
'log_general': True,
'log_lame_servers': True,
'log_network': True,
'log_notify': True,
'log_queries': False,
'log_query_rewrite': False,
'log_rate_limit': True,
'log_resolver': True,
'log_responses': False,
'log_rpz': False,
'log_security': True,
'log_update': True,
'log_update_security': True,
'log_xfer_in': True,
'log_xfer_out': True}
```

Search

The field is not available for search.

Notes

logging_categories is associated with the field use_logging_categories (see use flag).

max_cache_ttl

`max_cache_ttl`

The maximum time (in seconds) for which the server will cache positive answers.

Type

Unsigned integer.

Create

The default value is *604800*.

Search

The field is not available for search.

Notes

max_cache_ttl is associated with the field use_max_cache_ttl (see use flag).

max_cached_lifetime

`max_cached_lifetime`

The maximum time in seconds a DNS response can be stored in the hardware acceleration cache.

Valid values are unsigned integer between 60 and 86400, inclusive.

Type

Unsigned integer.

Create

The default value is *86400*.

Search

The field is not available for search.

Notes

max_cached_lifetime is associated with the field use_max_cached_lifetime (see use flag).

max_ncache_ttl

`max_ncache_ttl`

The maximum time (in seconds) for which the server will cache negative (NXDOMAIN) responses.

The maximum allowed value is 604800.

Type

Unsigned integer.

Create

The default value is *10800*.

Search

The field is not available for search.

Notes

max_ncache_ttl is associated with the field use_max_ncache_ttl (see use flag).

max_udp_size

`max_udp_size`

The value is used by authoritative DNS servers to never send DNS responses larger than the configured value. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

Notes

max_udp_size is associated with the field use_max_udp_size (see use flag).

minimal_resp

`minimal_resp`

Enables the ability to return a minimal amount of data in response to a query. This capability speeds up the DNS services provided by the appliance.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

notify_delay

`notify_delay`

Specifies the number of seconds of delay the notify messages are sent to secondaries.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

notify_delay is associated with the field use_notify_delay (see use flag).

notify_source_port

`notify_source_port`

The source port for notify messages. When requesting zone transfers from the primary server, some secondary DNS servers use the source port number (the primary server used to send the notify message) as the destination port number in the zone transfer request. This setting overrides Grid static source port settings.

Valid values are between 1 and 63999. The default is selected by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

notify_source_port is associated with the field use_source_ports (see use flag).

nxdomain_log_query

`nxdomain_log_query`

Determines if NXDOMAIN redirection queries are logged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

nxdomain_log_query is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect

`nxdomain_redirect`

Enables NXDOMAIN redirection.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

nxdomain_redirect is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_addresses

`nxdomain_redirect_addresses`

The IPv4 NXDOMAIN redirection addresses.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_redirect_addresses is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_addresses_v6

`nxdomain_redirect_addresses_v6`

The IPv6 NXDOMAIN redirection addresses.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_redirect_addresses_v6 is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_ttl

`nxdomain_redirect_ttl`

The TTL value of synthetic DNS responses that result from NXDOMAIN redirection.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

nxdomain_redirect_ttl is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_rulesets

`nxdomain_rulesets`

The names of the Ruleset objects assigned at the Grid level for NXDOMAIN redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_rulesets is associated with the field use_nxdomain_redirect (see use flag).

query_source_port

`query_source_port`

The source port for queries. Specifying a source port number for recursive queries ensures that a firewall will allow the response.

Valid values are between 1 and 63999. The default is selected by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

query_source_port is associated with the field use_source_ports (see use flag).

record_name_policy

`record_name_policy`

The record name restriction policy.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

record_name_policy is associated with the field use_record_name_policy (see use flag).

recursive_client_limit

`recursive_client_limit`

A limit on the number of concurrent recursive clients.

Type

Unsigned integer.

Create

The default value is *5000*.

Search

The field is not available for search.

Notes

recursive_client_limit is associated with the field use_recursive_client_limit (see use flag).

recursive_query_list

`recursive_query_list`

The list of IPv4 or IPv6 addresses, networks or hosts authenticated by Transaction signature (TSIG) key from which recursive queries are allowed or denied.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

recursive_query_list is associated with the field use_recursive_query_setting (see use flag).

recursive_resolver

`recursive_resolver`

The recursive resolver for member DNS. UNBOUND support has been deprecated from NIOS 9.0 onwards.

Type

String.

Valid values are:

- BIND

Create

The default value is *BIND*.

Search

The field is not available for search.

resolver_query_timeout

`resolver_query_timeout`

The recursive query timeout for the member. The value must be 0 or between 10 and 30.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

resolver_query_timeout is associated with the field use_resolver_query_timeout (see use flag).

response_rate_limiting

response_rate_limiting

The response rate limiting settings for the member.

Type

A/An DNS Response Rate Limiting struct.

Create

The default value is:

```
  { 'enable_rrl': False,
'log_only': False,
'responses_per_second': 100,
'slip': 2,
'window': 15}
```

Search

The field is not available for search.

Notes

response_rate_limiting is associated with the field use_response_rate_limiting (see use flag).

root_name_server_type

root_name_server_type

Determines the type of root name servers.

Type

String.

Valid values are:

- CUSTOM
- INTERNET

Create

The default value is *INTERNET*.

Search

The field is not available for search.

Notes

root_name_server_type is associated with the field use_root_name_server (see use flag).

rpz_disable_nsdname_nsip

rpz_disable_nsdname_nsip

Enables NSDNAME and NSIP resource records from RPZ feeds at member level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_disable_nsdname_nsip is associated with the field use_rpz_disable_nsdname_nsip (see use flag).

rpz_drop_ip_rule_enabled

`rpz_drop_ip_rule_enabled`

Enables the appliance to ignore RPZ-IP triggers with prefix lengths less than the specified minimum prefix length.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_enabled is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv4

`rpz_drop_ip_rule_min_prefix_length_ipv4`

The minimum prefix length for IPv4 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv4 prefix length.

Type

Unsigned integer.

Create

The default value is *29*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv4 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv6

rpz_drop_ip_rule_min_prefix_length_ipv6

The minimum prefix length for IPv6 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv6 prefix length.

Type

Unsigned integer.

Create

The default value is *112*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv6 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_qname_wait_recurse

rpz_qname_wait_recurse

The flag that indicates whether recursive RPZ lookups are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_qname_wait_recurse is associated with the field use_rpz_qname_wait_recurse (see use flag).

serial_query_rate

serial_query_rate

The number of maximum concurrent SOA queries per second for the member.

Type

Unsigned integer.

Create

The default value is *20*.

Search

The field is not available for search.

Notes

serial_query_rate is associated with the field use_serial_query_rate (see use flag).

server_id_directive

`server_id_directive`

The value of the server-id directive for BIND and Unbound DNS.

Type

String.

Valid values are:

- HOSTNAME
- NONE
- USER_DEFINED

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

server_id_directive is associated with the field use_server_id_directive (see use flag).

server_id_directive_string

`server_id_directive_string`

The value of the user-defined hostname directive for BIND DNS. To enable user-defined hostname directive, you must set the bind_hostname_directive to “USER_DEFINED”.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

skip_in_grid_rpz_queries

`skip_in_grid_rpz_queries`

Determines if RPZ rules are applied to queries originated from this member and received by other Grid members.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

sortlist

`sortlist`

A sort list determines the order of addresses in responses made to DNS queries. This setting overrides Grid sort list settings.

Type

A/An DNS Sortlist struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

sortlist is associated with the field use_sortlist (see use flag).

store_locally

`store_locally`

The flag that indicates whether the storage of query capture reports on the appliance is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

syslog_facility

`syslog_facility`

The syslog facility. This is the location on the syslog server to which you want to sort the DNS logging messages. This setting overrides the Grid logging facility settings.

Type

String.

Valid values are:

- DAEMON
- LOCAL0
- LOCAL1
- LOCAL2
- LOCAL3
- LOCAL4
- LOCAL5
- LOCAL6
- LOCAL7

Create

The default value is *DAEMON*.

Search

The field is not available for search.

Notes

syslog_facility is associated with the field use_syslog_facility (see use flag).

tcp_idle_timeout

`tcp_idle_timeout`

TCP Idle timeout for DNS over TLS connections.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

tls_session_duration

`tls_session_duration`

DNS over TLS sessions duration.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

transfer_excluded_servers

`transfer_excluded_servers`

Excludes specified DNS servers during zone transfers.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

transfer_excluded_servers is associated with the field use_zone_transfer_format (see use flag).

transfer_format

`transfer_format`

The BIND format for a zone transfer. This provides tracking capabilities for single or multiple transfers and their associated servers.

Type

String.

Valid values are:

- MANY_ANSWERS
- ONE_ANSWER

Create

The default value is *MANY_ANSWERS*.

Search

The field is not available for search.

Notes

transfer_format is associated with the field use_zone_transfer_format (see use flag).

transfers_in

`transfers_in`

The number of maximum concurrent transfers for the member.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

transfers_in is associated with the field use_transfers_in (see use flag).

transfers_out

`transfers_out`

The number of maximum outbound concurrent zone transfers for the member.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

transfers_out is associated with the field use_transfers_out (see use flag).

transfers_per_ns

`transfers_per_ns`

The number of maximum concurrent transfers per member for the member.

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

Notes

transfers_per_ns is associated with the field use_transfers_per_ns (see use flag).

upstream_address_family_preference

`upstream_address_family_preference`

Upstream address family preference when dual mode is configured.

Type

String.

Valid values are:

- ANY
- IPV4
- IPV6

Create

The default value is *ANY*.

Search

The field is not available for search.

use_add_client_ip_mac_options

`use_add_client_ip_mac_options`

Use flag for: add_client_ip_mac_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_query

`use_allow_query`

Use flag for: allow_query

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_transfer

`use_allow_transfer`

Use flag for: allow_transfer

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_attack_mitigation

use_attack_mitigation

Use flag for: attack_mitigation

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_auto_blackhole

use_auto_blackhole

Use flag for: auto_blackhole

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bind_hostname_directive

use_bind_hostname_directive

Use flag for: bind_hostname_directive

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_blackhole

use_blackhole

Use flag for: enable_blackhole

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_blacklist

`use_blacklist`

Use flag for: blackhole_list , blacklist_action, blacklist_log_query, blacklist_redirect_addresses, blacklist_redirect_ttl, blacklist_rulesets, enable_blacklist

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_capture_dns_queries_on_all_domains

`use_capture_dns_queries_on_all_domains`

Use flag for: capture_dns_queries_on_all_domains

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_copy_client_ip_mac_options

`use_copy_client_ip_mac_options`

Use flag for: copy_client_ip_mac_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_copy_xfer_to_notify

use_copy_xfer_to_notify

Use flag for: copy_xfer_to_notify

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable_edns

use_disable_edns

Use flag for: disable_edns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns64

use_dns64

Use flag for: enable_dns64 , dns64_groups

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns_cache_acceleration_ttl

use_dns_cache_acceleration_ttl

Use flag for: dns_cache_acceleration_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns_health_check

`use_dns_health_check`

Use flag for: dns_health_check_domain_list , dns_health_check_recursion_flag, dns_health_check_anycast_control, enable_dns_health_check, dns_health_check_interval, dns_health_check_timeout, dns_health_check_retries

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dnssec

`use_dnssec`

Use flag for: dnssec_enabled , dnssec_expired_signatures_enabled, dnssec_validation_enabled, dnssec_trusted_keys

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dnstap_setting

`use_dnstap_setting`

Use flag for: enable_dnstap_queries , enable_dnstap_responses, enable_dnstap_violations_tls, enable_dnstap_setting, enable_dnstap_logging_type, enable_dnstap_client_queries, enable_dnstap_resolver_queries, enable_dnstap_forwarder_queries, enable_dnstap_auth_queries, enable_dnstap_client_responses, enable_dnstap_resolver_responses, enable_dnstap_forwarder_responses, enable_dnstap_auth_responses, dnstap_setting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dtc_dns_queries_specific_behavior

`use_dtc_dns_queries_specific_behavior`

Use flag for: dtc_dns_queries_specific_behavior

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dtc_edns_prefer_client_subnet

`use_dtc_edns_prefer_client_subnet`

Use flag for: dtc_edns_prefer_client_subnet

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_edns_udp_size

`use_edns_udp_size`

Use flag for: edns_udp_size

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_capture_dns

use_enable_capture_dns

Use flag for: enable_capture_dns_queries , enable_capture_dns_responses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_excluded_domain_names

use_enable_excluded_domain_names

Use flag for: enable_excluded_domain_names

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_gss_tsig

use_enable_gss_tsig

Use flag for: enable_gss_tsig

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_query_rewrite

use_enable_query_rewrite

Use flag for: enable_query_rewrite

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_filter_aaaa

use_filter_aaaa

Use flag for: filter_aaaa , filter_aaaa_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_fixed_rrset_order_fqdns

use_fixed_rrset_order_fqdns

Use flag for: fixed_rrset_order_fqdns , enable_fixed_rrset_order_fqdns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_forward_updates

use_forward_updates

Use flag for: forward_updates

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_forwarders

use_forwarders

Use flag for: forwarders , forward_only

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ftc

use_ftc

Use flag for: enable_ftc , ftc_expired_record_ttl, ftc_expired_record_timeout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_gss_tsig_keys

use_gss_tsig_keys

Use flag for: gss_tsig_keys

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lan2_ipv6_port

use_lan2_ipv6_port

Determines if the DNS service on the IPv6 LAN2 port is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lan2_port

use_lan2_port

Determines if the DNS service on the LAN2 port is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lan_ipv6_port

use_lan_ipv6_port

Determines if the DNS service on the IPv6 LAN port is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lan_port

use_lan_port

Determines the status of the use of DNS services on the IPv4 LAN1 port.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

use_logging_categories

use_logging_categories

Use flag for: logging_categories

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_cache_ttl

`use_max_cache_ttl`

Use flag for: max_cache_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_cached_lifetime

`use_max_cached_lifetime`

Use flag for: max_cached_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_ncache_ttl

`use_max_ncache_ttl`

Use flag for: max_ncache_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_udp_size

use_max_udp_size

Use flag for: max_udp_size

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgmt_ipv6_port

use_mgmt_ipv6_port

Determines if the DNS services on the IPv6 MGMT port is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgmt_port

use_mgmt_port

Determines if the DNS services on the MGMT port is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_notify_delay

use_notify_delay

Use flag for: notify_delay

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nxdomain_redirect

`use_nxdomain_redirect`

Use flag for: nxdomain_redirect , nxdomain_redirect_addresses, nxdomain_redirect_addresses_v6, nxdomain_redirect_ttl, nxdomain_log_query, nxdomain_rulesets

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_record_name_policy

`use_record_name_policy`

Use flag for: record_name_policy

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recursive_client_limit

`use_recursive_client_limit`

Use flag for: recursive_client_limit

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recursive_query_setting

`use_recursive_query_setting`

Use flag for: allow_recursive_query , recursive_query_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_resolver_query_timeout

`use_resolver_query_timeout`

Use flag for: resolver_query_timeout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_response_rate_limiting

`use_response_rate_limiting`

Use flag for: response_rate_limiting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_root_name_server

`use_root_name_server`

Use flag for: root_name_server_type , custom_root_name_servers, use_root_server_for_all_views

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_root_server_for_all_views

`use_root_server_for_all_views`

Determines if root name servers should be applied to all views or only to Default view.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

use_root_server_for_all_views is associated with the field use_root_name_server (see use flag).

use_rpz_disable_nsdname_nsip

`use_rpz_disable_nsdname_nsip`

Use flag for: rpz_disable_nsdname_nsip

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_rpz_drop_ip_rule

`use_rpz_drop_ip_rule`

Use flag for: rpz_drop_ip_rule_enabled , rpz_drop_ip_rule_min_prefix_length_ipv4,

rpz_drop_ip_rule_min_prefix_length_ipv6

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_rpz_qname_wait_recurse

`use_rpz_qname_wait_recurse`

Use flag for: rpz_qname_wait_recurse

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_serial_query_rate

`use_serial_query_rate`

Use flag for: serial_query_rate

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_server_id_directive

`use_server_id_directive`

Use flag for: server_id_directive

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_sortlist

use_sortlist

Use flag for: sortlist

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_source_ports

use_source_ports

Use flag for: enable_notify_source_port , notify_source_port, enable_query_source_port, query_source_port

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_syslog_facility

use_syslog_facility

Use flag for: syslog_facility

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_transfers_in

use_transfers_in

Use flag for: transfers_in

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_transfers_out

`use_transfers_out`

Use flag for: transfers_out

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_transfers_per_ns

`use_transfers_per_ns`

Use flag for: transfers_per_ns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_setting

`use_update_setting`

Use flag for: allow_update , allow_gss_tsig_zone_updates

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_zone_transfer_format

`use_zone_transfer_format`

Use flag for: transfer_excluded_servers , transfer_format

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

views

`views`

The list of views associated with this member.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Function Calls

clear_dns_cache

This function is used to clear DNS cache. It clears the entire cache or removes one specified domain from the named cache.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

clear_full_tree (Bool.) Determines whether the function clears the given domain as well as all the names under it. The default value is “False”.

domain (String.) The domain name to be cleared from the DNS cache. If no domain name is specified, then the entire cache is cleared. The default value is “None”.

view (String.) The DNS view on which the operation is performed.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
add_client_ip_mac_options	Bool	N	N	N	N/A
additional_ip_list	[String]	N	N	N	N/A
additional_ip_list_struct	[struct]	N	N	N	N/A
allow_gss_tsig_zone_updates	Bool	N	N	N	N/A
allow_query	[struct]	N	N	N	N/A
allow_recursive_query	Bool	N	N	N	N/A
allow_transfer	[struct]	N	N	N	N/A
allow_update	[struct]	N	N	N	N/A
anonymize_response_logging	Bool	N	N	N	N/A
atc_fwd_enable	Bool	N	N	N	N/A
attack_mitigation	struct	N	N	N	N/A
auto_blackhole	struct	N	N	N	N/A
auto_create_a_and_ptr_for_lan2	Bool	N	N	N	N/A
auto_create_aaaa_and_ipv6ptr_for_lan2	Bool	N	N	N	N/A
auto_sort_views	Bool	N	N	N	N/A
bind_check_names_policy	String	N	N	N	N/A
bind_hostname_directive	String	N	N	N	N/A
bind_hostname_directive_fqdn	String	N	N	N	N/A
blackhole_list	[struct]	N	N	N	N/A
blacklist_action	String	N	N	N	N/A
blacklist_log_query	Bool	N	N	N	N/A
blacklist_redirect_addresses	[String]	N	N	N	N/A
blacklist_redirect_ttl	Unsigned int	N	N	N	N/A
blacklist_rulesets	[String]	N	N	N	N/A
capture_dns_queries_on_all_domains	Bool	N	N	N	N/A

check_names_for_ddns_and_zone_transfer	Bool	N	N	N	N/A
copy_client_ip_mac_options	Bool	N	N	N	N/A
copy_xfer_to_notify	Bool	N	N	N	N/A
custom_root_name_servers	[struct]	N	N	N	N/A
disable_edns	Bool	N	N	N	N/A
dns64_groups	[String]	N	N	N	N/A
dns_cache_acceleration_status	String	N	Y	N	N/A
dns_cache_acceleration_ttl	Unsigned int	N	N	N	N/A
dns_health_check_anycast_control	Bool	N	N	N	N/A
dns_health_check_domain_list	[String]	N	N	N	N/A
dns_health_check_interval	Unsigned int	N	N	N	N/A
dns_health_check_recursion_flag	Bool	N	N	N	N/A
dns_health_check_retries	Unsigned int	N	N	N	N/A
dns_health_check_timeout	Unsigned int	N	N	N	N/A
dns_notify_transfer_source	String	N	N	N	N/A
dns_notify_transfer_source_address	String	N	N	N	N/A
dns_over_https_endpoint	String	N	N	N	N/A
dns_over_https_stream_per_connection	Unsigned int	N	N	N	N/A
dns_over_tls_service	Bool	N	N	N	N/A
dns_query_capture_file_time_limit	Unsigned int	N	N	N	N/A
dns_query_source_address	String	N	N	N	N/A
dns_query_source_interface	String	N	N	N	N/A
dns_view_address_settings	[struct]	N	N	N	N/A
dnssec_blacklist_enabled	Bool	N	N	N	N/A
dnssec_dns64_enabled	Bool	N	N	N	N/A
dnssec_enabled	Bool	N	N	N	N/A
dnssec_expired_signatures_enabled	Bool	N	N	N	N/A
dnssec_negative_trust_anchors	[String]	N	N	N	N/A
dnssec_nxdomain_enabled	Bool	N	N	N	N/A
dnssec_rpz_enabled	Bool	N	N	N	N/A
dnssec_trusted_keys	[struct]	N	N	N	N/A
dnssec_validation_enabled	Bool	N	N	N	N/A
dnstap_identity	String	N	N	N	N/A
dnstap_setting	struct	N	N	N	N/A
doh_https_session_duration	Unsigned int	N	N	N	N/A
doh_service	Bool	N	N	N	N/A
domains_to_capture_dns_queries	[String]	N	N	N	N/A
dtc_dns_queries_specific_behavior	String	N	N	N	N/A
dtc_edns_prefer_client_subnet	Bool	N	N	N	N/A
dtc_health_source	String	N	N	N	N/A
dtc_health_source_address	String	N	N	N	N/A
edns_udp_size	Unsigned int	N	N	N	N/A
enable_blackhole	Bool	N	N	N	N/A
enable_blacklist	Bool	N	N	N	N/A
enable_capture_dns_queries	Bool	N	N	N	N/A
enable_capture_dns_responses	Bool	N	N	N	N/A

enable_dns	Bool	N	N	N	N/A
enable_dns64	Bool	N	N	N	N/A
enable_dns_cache_acceleration	Bool	N	N	N	N/A
enable_dns_health_check	Bool	N	N	N	N/A
enable_dnstap_auth_queries	Bool	N	N	N	N/A
enable_dnstap_auth_responses	Bool	N	N	N	N/A
enable_dnstap_client_queries	Bool	N	N	N	N/A
enable_dnstap_client_responses	Bool	N	N	N	N/A
enable_dnstap_forwarder_queries	Bool	N	N	N	N/A
enable_dnstap_forwarder_responses	Bool	N	N	N	N/A
enable_dnstap_logging_type	Bool	N	N	N	N/A
enable_dnstap_queries	Bool	N	N	N	N/A
enable_dnstap_resolver_queries	Bool	N	N	N	N/A
enable_dnstap_resolver_responses	Bool	N	N	N	N/A
enable_dnstap_responses	Bool	N	N	N	N/A
enable_dnstap_setting	Bool	N	N	N	N/A
enable_dnstap_violations_tls	Bool	N	N	N	N/A
enable_excluded_domain_names	Bool	N	N	N	N/A
enable_fixed_rrset_order_fqdns	Bool	N	N	N	N/A
enable_ftc	Bool	N	N	N	N/A
enable_gss_tsig	Bool	N	N	N	N/A
enable_notify_source_port	Bool	N	N	N	N/A
enable_query_rewrite	Bool	N	N	N	N/A
enable_query_source_port	Bool	N	N	N	N/A
excluded_domain_names	[String]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
file_transfer_setting	struct	N	N	N	N/A
filter_aaaa	String	N	N	N	N/A
filter_aaaa_list	[struct]	N	N	N	N/A
fixed_rrset_order_fqdns	[struct]	N	N	N	N/A
forward_only	Bool	N	N	N	N/A
forward_updates	Bool	N	N	N	N/A
forwarders	[String]	N	N	N	N/A
ftc_expired_record_timeout	Unsigned int	N	N	N	N/A
ftc_expired_record_ttl	Unsigned int	N	N	N	N/A
glue_record_addresses	[struct]	N	N	N	N/A
gss_tsig_keys	[obj]	N	N	N	N/A
host_name	String	N	Y	Y	= ~
ipv4addr	String	N	Y	Y	= ~
ipv6_glue_record_addresses	[struct]	N	N	N	N/A
ipv6addr	String	N	Y	Y	= ~
logging_categories	struct	N	N	N	N/A
max_cache_ttl	Unsigned int	N	N	N	N/A
max_cached_lifetime	Unsigned int	N	N	N	N/A
max_ncache_ttl	Unsigned int	N	N	N	N/A
max_udp_size	Unsigned int	N	N	N	N/A
minimal_resp	Bool	N	N	N	N/A
	Unsigned				

notify_delay	int	N	N	N	N/A
notify_source_port	Unsigned int	N	N	N	N/A
nxdomain_log_query	Bool	N	N	N	N/A
nxdomain_redirect	Bool	N	N	N	N/A
nxdomain_redirect_addresses	[String]	N	N	N	N/A
nxdomain_redirect_addresses_v6	[String]	N	N	N	N/A
nxdomain_redirect_ttl	Unsigned int	N	N	N	N/A
nxdomain_rulesets	[String]	N	N	N	N/A
query_source_port	Unsigned int	N	N	N	N/A
record_name_policy	String	N	N	N	N/A
recursive_client_limit	Unsigned int	N	N	N	N/A
recursive_query_list	[struct]	N	N	N	N/A
recursive_resolver	String	N	N	N	N/A
resolver_query_timeout	Unsigned int	N	N	N	N/A
response_rate_limiting	struct	N	N	N	N/A
root_name_server_type	String	N	N	N	N/A
rpz_disable_nsdname_nsip	Bool	N	N	N	N/A
rpz_drop_ip_rule_enabled	Bool	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv4	Unsigned int	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv6	Unsigned int	N	N	N	N/A
rpz_qname_wait_recurse	Bool	N	N	N	N/A
serial_query_rate	Unsigned int	N	N	N	N/A
server_id_directive	String	N	N	N	N/A
server_id_directive_string	String	N	N	N	N/A
skip_in_grid_rpz_queries	Bool	N	N	N	N/A
sortlist	[struct]	N	N	N	N/A
store_locally	Bool	N	N	N	N/A
syslog_facility	String	N	N	N	N/A
tcp_idle_timeout	Unsigned int	N	N	N	N/A
tls_session_duration	Unsigned int	N	N	N	N/A
transfer_excluded_servers	[String]	N	N	N	N/A
transfer_format	String	N	N	N	N/A
transfers_in	Unsigned int	N	N	N	N/A
transfers_out	Unsigned int	N	N	N	N/A
transfers_per_ns	Unsigned int	N	N	N	N/A
upstream_address_family_preference	String	N	N	N	N/A
use_add_client_ip_mac_options	Bool	N	N	N	N/A
use_allow_query	Bool	N	N	N	N/A
use_allow_transfer	Bool	N	N	N	N/A
use_attack_mitigation	Bool	N	N	N	N/A
use_auto_blackhole	Bool	N	N	N	N/A

use_bind_hostname_directive	Bool	N	N	N	N/A
use_blackhole	Bool	N	N	N	N/A
use_blacklist	Bool	N	N	N	N/A
use_capture_dns_queries_on_all_domains	Bool	N	N	N	N/A
use_copy_client_ip_mac_options	Bool	N	N	N	N/A
use_copy_xfer_to_notify	Bool	N	N	N	N/A
use_disable_edns	Bool	N	N	N	N/A
use_dns64	Bool	N	N	N	N/A
use_dns_cache_acceleration_ttl	Bool	N	N	N	N/A
use_dns_health_check	Bool	N	N	N	N/A
use_dnssec	Bool	N	N	N	N/A
use_dnstap_setting	Bool	N	N	N	N/A
use_dtc_dns_queries_specific_behavior	Bool	N	N	N	N/A
use_dtc_edns_prefer_client_subnet	Bool	N	N	N	N/A
use_edns_udp_size	Bool	N	N	N	N/A
use_enable_capture_dns	Bool	N	N	N	N/A
use_enable_excluded_domain_names	Bool	N	N	N	N/A
use_enable_gss_tsig	Bool	N	N	N	N/A
use_enable_query_rewrite	Bool	N	N	N	N/A
use_filter_aaaa	Bool	N	N	N	N/A
use_fixed_rrset_order_fqdns	Bool	N	N	N	N/A
use_forward_updates	Bool	N	N	N	N/A
use_forwarders	Bool	N	N	N	N/A
use_ftc	Bool	N	N	N	N/A
use_gss_tsig_keys	Bool	N	N	N	N/A
use_lan2_ipv6_port	Bool	N	N	N	N/A
use_lan2_port	Bool	N	N	N	N/A
use_lan_ipv6_port	Bool	N	N	N	N/A
use_lan_port	Bool	N	N	N	N/A
use_logging_categories	Bool	N	N	N	N/A
use_max_cache_ttl	Bool	N	N	N	N/A
use_max_cached_lifetime	Bool	N	N	N	N/A
use_max_ncache_ttl	Bool	N	N	N	N/A
use_max_udp_size	Bool	N	N	N	N/A
use_mgmt_ipv6_port	Bool	N	N	N	N/A
use_mgmt_port	Bool	N	N	N	N/A
use_notify_delay	Bool	N	N	N	N/A
use_nxdomain_redirect	Bool	N	N	N	N/A
use_record_name_policy	Bool	N	N	N	N/A
use_recursive_client_limit	Bool	N	N	N	N/A
use_recursive_query_setting	Bool	N	N	N	N/A
use_resolver_query_timeout	Bool	N	N	N	N/A
use_response_rate_limiting	Bool	N	N	N	N/A
use_root_name_server	Bool	N	N	N	N/A
use_root_server_for_all_views	Bool	N	N	N	N/A
use_rpz_disable_nsdname_nsip	Bool	N	N	N	N/A
use_rpz_drop_ip_rule	Bool	N	N	N	N/A
use_rpz_qname_wait_recurse	Bool	N	N	N	N/A
use_serial_query_rate	Bool	N	N	N	N/A
use_server_id_directive	Bool	N	N	N	N/A
use_sortlist	Bool	N	N	N	N/A
use_source_ports	Bool	N	N	N	N/A
use_syslog_facility	Bool	N	N	N	N/A

use_transfers_in	Bool	N	N	N	N/A
use_transfers_out	Bool	N	N	N	N/A
use_transfers_per_ns	Bool	N	N	N	N/A
use_update_setting	Bool	N	N	N	N/A
use_zone_transfer_format	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
views	[String]	N	N	N	N/A

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Table of Contents

member:filedistribution : Grid member file distribution object.
- Object Reference
- Restrictions
- Fields
  - allow_uploads
  - comment
  - enable_ftp
  - enable_ftp_filelist
  - enable_ftp_passive
  - enable_http
  - enable_http_acl
  - enable_tftp
  - ftp_acls
  - ftp_port
  - ftp_status
  - host_name
  - http_acls
  - http_status
  - ipv4_address
  - ipv6_address
  - status
  - tftp_acls
  - tftp_port
  - tftp_status
  - use_allow_uploads
  - uuid
- Fields List

Previous topic

member:dns : Member DNS object.

Next topic

member:license : Member License object.

member:filedistribution : Grid member file distribution object.

The Grid member file distribution object is used to configure file distribution services such as TFTP, FTP and HTTP, and access control lists (ACL) that determine which clients are granted access to the service (TFTP, FTP, HTTP), and which clients are denied access to the service.

Object Reference

References to member:filedistribution are object references.

The *name* part of the Grid member file distribution object reference has the following components:

- The Grid member name

Example (using _ref or UUID):

```
# Using _ref member:filedistribution/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:hostname.com

# Using UUID member:filedistribution/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **host_name, ipv4_address, ipv6_address, status, uuid**.

allow_uploads

`allow_uploads`

Determines whether uploads to the Grid member are allowed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

allow_uploads is associated with the field use_allow_uploads (see use flag).

comment

`comment`

The Grid member descriptive comment.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

enable_ftp

`enable_ftp`

Determines whether the FTP prtocol is enabled for file distribution.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ftp_filelist

`enable_ftp_filelist`

Determines whether the LIST command for FTP is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ftp_passive

`enable_ftp_passive`

Determines whether the passive mode for FTP is enabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

enable_http

`enable_http`

Determines whether the HTTP prtocol is enabled for file distribution.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_http_acl

`enable_http_acl`

Determines whether the HTTP prtocol access control (AC) settings are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_tftp

`enable_tftp`

Determines whether the TFTP prtocol is enabled for file distribution.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ftp_acls

`ftp_acls`

Access control (AC) settings for the FTP protocol.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ftp_port

`ftp_port`

The network port used by the FTP protocol.

Type

Unsigned integer.

Create

The default value is *21*.

Search

The field is not available for search.

ftp_status

`ftp_status`

The FTP protocol status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The ftp_status cannot be updated.

ftp_status cannot be written.

host_name

`host_name`

The Grid member host name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The host_name is part of the base object.

The host_name cannot be updated.

host_name cannot be written.

http_acls

`http_acls`

Access control (AC) settings for the HTTP protocol.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

http_status

`http_status`

The HTTP protocol status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The http_status cannot be updated.

http_status cannot be written.

ipv4_address

`ipv4_address`

The IPv4 address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4_address is part of the base object.

The ipv4_address cannot be updated.

ipv4_address cannot be written.

ipv6_address

`ipv6_address`

The IPv6 address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6_address is part of the base object.

The ipv6_address cannot be updated.

ipv6_address cannot be written.

status

`status`

The Grid member file distribution status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

tftp_acls

`tftp_acls`

The access control (AC) settings for the TFTP protocol.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

tftp_port

`tftp_port`

The network port used by the TFTP protocol.

Type

Unsigned integer.

Create

The default value is *69*.

Search

The field is not available for search.

tftp_status

`tftp_status`

The TFTP protocol status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The tftp_status cannot be updated.

tftp_status cannot be written.

use_allow_uploads

`use_allow_uploads`

Use flag for: allow_uploads

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allow_uploads	Bool	N	N	N	N/A
comment	String	N	Y	N	: = ~
enable_ftp	Bool	N	N	N	N/A
enable_ftp_filelist	Bool	N	N	N	N/A
enable_ftp_passive	Bool	N	N	N	N/A
enable_http	Bool	N	N	N	N/A
enable_http_acl	Bool	N	N	N	N/A
enable_tftp	Bool	N	N	N	N/A
ftp_acls	[struct]	N	N	N	N/A
ftp_port	Unsigned int	N	N	N	N/A
ftp_status	String	N	Y	N	N/A
host_name	String	N	Y	Y	: = ~
http_acls	[struct]	N	N	N	N/A
http_status	String	N	Y	N	N/A
ipv4_address	String	N	Y	Y	= ~
ipv6_address	String	N	Y	Y	= ~
status	String	N	Y	Y	N/A
tftp_acls	[struct]	N	N	N	N/A
tftp_port	Unsigned int	N	N	N	N/A
tftp_status	String	N	Y	N	N/A
use_allow_uploads	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

member:license : Member License object.
- Object Reference
- Restrictions
- Fields
  - expiration_status
  - expiry_date
  - hwid
  - key
  - kind
  - limit
  - limit_context
  - type
  - uuid
- Fields List

Previous topic

member:filedistribution : Grid member file distribution object.

Next topic

member:parentalcontrol : Member mobile security properties object.

member:license : Member License object.

This object represents the member license.

Object Reference

References to member:license are object references. The *name* part of a Member License object reference has the following components:

- Type of license e.g. DNS, DHCP.
- Kind of license - Static/Dynamic.

Example (using _ref or UUID):

```
# Using _ref
member:license/b25lLnByb2R1Y3RfbGljZW5zZSQwLGRoY3AsMA:DHCP/Static

# Using UUID member:license/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **type, uuid**.

expiration_status

`expiration_status`

The license expiration status.

Type

String.

Valid values are:

- DELETED
- EXPIRED
- EXPIRING_SOON
- EXPIRING_VERY_SOON
- NOT_EXPIRED
- PERMANENT

Search

The field is not available for search.

Notes

The expiration_status cannot be updated.

expiration_status cannot be written.

expiry_date

`expiry_date`

The expiration timestamp of the license.

Type

Timestamp.

Search

The field is not available for search.

Notes

The expiry_date cannot be updated.

expiry_date cannot be written.

hwid

`hwid`

The hardware ID of the physical node on which the license is installed.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The hwid cannot be updated.

hwid cannot be written.

key

`key`

License string.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The key cannot be updated.

key cannot be written.

kind

`kind`

The overall type of license: static or dynamic.

Type

String.

Valid values are:
- Dynamic
- Gridwide
- Payg
- Static

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The kind cannot be updated.

kind cannot be written.

limit

`limit`

The license limit value.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The limit cannot be updated.

limit cannot be written.

limit_context

`limit_context`

The license limit context.

Type

String.

Valid values are:

- LEASES
- MODEL
- NONE
- TIER

Search

The field is not available for search.

Notes

The limit_context cannot be updated.

limit_context cannot be written.

type

type

The license type.

Type

String.

Valid values are:

- ANYCAST
- CLOUD
- CLOUD_API
- DCA
- DDI_TRIAL
- DHCP
- DISCOVERY
- DNS
- DNSQRW
- DNS_CACHE_ACCEL
- DTC
- FIREEYE
- FLEX_GRID_ACTIVATION
- FLEX_GRID_ACTIVATION_MS
- FREQ_CONTROL
- GRID
- GRID_MAINTENANCE
- IPAM
- IPAM_FREEWARE
- LDAP
- LOAD_BALANCER
- MGM
- MSMGMT
- NIOS
- NIOS_MAINTENANCE
- NTP
- OEM
- QRD
- REPORTING
- REPORTING_SUB

- RPZ
- SECURITY_ECOSYSTEM
- SW_TP
- TAE
- TFTP
- THREAT_INSIGHT
- TP
- TP_SUB
- VNIOS

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
expiration_status	String	N	Y	N	N/A
expiry_date	Timestamp	N	Y	N	N/A
hwid	String	N	Y	N	=
key	String	N	Y	N	=
kind	String	N	Y	N	=
limit	String	N	Y	N	=
limit_context	String	N	Y	N	N/A
type	String	N	Y	Y	=

uuid	String	N	Y	Y	: = ~

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Table of Contents

member:parentalcontrol : Member mobile security properties object.
- Object Reference
- Restrictions
- Fields
  - enable_service
  - name
  - uuid
- Fields List

Previous topic

member:license : Member License object.

Next topic

member:threatinsight : Grid member threat insight object.

member:parentalcontrol : Member mobile security properties object.

This object represents a set of parental control properties for the Grid member.

Object Reference

References to member:parentalcontrol are object references.

The *name* part of the member:parentalcontrol object reference has the following components:

- The name of a member.

Example (using _ref or UUID):

```
# Using _ref
member:parentalcontrol/ZG5zLm5ldHdvcmtfdmlldyQxMTk:member.com

# Using UUID
member:parentalcontrol/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **enable_service, name, uuid**.

enable_service

`enable_service`

Determines if the parental control service is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_service is part of the base object.

name

`name`

The parental control member hostname.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
enable_service	Bool	N	N	Y	N/A
name	String	Y	Y	Y	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

member:threatinsight : Grid member threat insight object.
- Object Reference
- Restrictions
- Fields
  - comment
  - enable_service
  - host_name
  - ipv4_address
  - ipv6_address
  - status
  - uuid
- Fields List

Previous topic

member:parentalcontrol : Member mobile security properties object.

Next topic

member:threatprotection : Member threat protection object.

member:threatinsight : Grid member threat insight object.

To mitigate DNS data exfiltration, Infoblox DNS threat insight employs analytics algorithms that analyze incoming DNS queries and responses to detect DNS tunneling traffic.

The Grid member threat insight object contains facilities for starting and stopping the DNS threat insight routines as well as for monitoring the current status of the threat insight service.

Object Reference

References to member:threatinsight are object references.

The *name* part of the Grid member threat insight object reference has the following components:

- The Grid member host name

Example (using _ref or UUID):

```
# Using _ref member:threatinsight/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:hostname.com

# Using UUID member:threatinsight/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **host_name, ipv4_address, ipv6_address, status, uuid**.

comment

`comment`

The Grid member descriptive comment.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

enable_service

`enable_service`

Determines whether the threat insight service is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

host_name

`host_name`

The Grid member host name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The host_name is part of the base object.

The host_name cannot be updated.

host_name cannot be written.

ipv4_address

`ipv4_address`

The IPv4 Address address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4_address is part of the base object.

The ipv4_address cannot be updated.

ipv4_address cannot be written.

ipv6_address

`ipv6_address`

The IPv6 Address address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6_address is part of the base object.

The ipv6_address cannot be updated.

ipv6_address cannot be written.

status

`status`

The Grid member threat insight status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- UNKNOWN
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	N	: = ~
enable_service	Bool	N	N	N	N/A
host_name	String	N	Y	Y	: = ~
ipv4_address	String	N	Y	Y	= ~
ipv6_address	String	N	Y	Y	= ~
status	String	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

member:threatprotection : Member threat protection object.
- Object Reference
- Restrictions
- Fields
  - comment
  - current_ruleset
  - disable_multiple_dns_tcp_request
  - enable_accel_resp_before_threat_protection
  - enable_nat_rules
  - enable_service
  - events_per_second_per_rule
  - hardware_model
  - hardware_type
  - host_name
  - ipv4address
  - ipv6address
  - nat_rules
  - outbound_settings
  - profile
  - use_current_ruleset
  - use_disable_multiple_dns_tcp_request
  - use_enable_accel_resp_before_threat_protection
  - use_enable_nat_rules
  - use_events_per_second_per_rule
  - use_outbound_settings
  - uuid
- Fields List

Previous topic

member:threatinsight : Grid member threat insight object.

Next topic

membercloudsync : MemberCloudSync object.

member:threatprotection : Member threat protection object.

This object provides information about the member threat protection settings.

Object Reference

References to member:threatprotection are object references.

The *name* part of the userprofile object reference has the following components:

- The name of a Grid member.

Example (using _ref or UUID):

```
# Using _ref member:threatprotection/YXRwLm1lbWJlcl9hdHBfcHJvcGVydGllcyQw:infoblox.localdomain

# Using UUID member:threatprotection/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

comment

`comment`

The human readable comment for member threat protection properties.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

current_ruleset

`current_ruleset`

The ruleset used for threat protection.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

current_ruleset is associated with the field use_current_ruleset (see use flag).

disable_multiple_dns_tcp_request

`disable_multiple_dns_tcp_request`

Determines if multiple BIND responses via TCP connection is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

disable_multiple_dns_tcp_request is associated with the field use_disable_multiple_dns_tcp_request (see use flag).

enable_accel_resp_before_threat_protection

`enable_accel_resp_before_threat_protection`

Determines if DNS responses are sent from acceleration cache before applying Threat Protection rules. Recommended for better performance when using DNS Cache Acceleration.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

enable_accel_resp_before_threat_protection is associated with the field use_enable_accel_resp_before_threat_protection (see use flag).

enable_nat_rules

`enable_nat_rules`

Determines if NAT (Network Address Translation) mapping for threat protection is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_nat_rules is associated with the field use_enable_nat_rules (see use flag).

enable_service

`enable_service`

Determines if the Threat protection service is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

events_per_second_per_rule

`events_per_second_per_rule`

The number of events logged per second per rule.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

events_per_second_per_rule is associated with the field use_events_per_second_per_rule (see use flag).

hardware_model

hardware_model

The hardware model of the member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The hardware_model cannot be updated.

hardware_model cannot be written.

hardware_type

hardware_type

The hardware type of the member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The hardware_type cannot be updated.

hardware_type cannot be written.

host_name

host_name

A Grid member name.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The host_name cannot be updated.

host_name cannot be written.

ipv4address

`ipv4address`

The IPv4 address of member threat protection service.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ipv4address cannot be updated.

ipv4address cannot be written.

ipv6address

`ipv6address`

The IPv6 address of member threat protection service.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ipv6address cannot be updated.

ipv6address cannot be written.

nat_rules

`nat_rules`

The list of NAT rules.

Type

A/An NAT Threat Protection Rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

outbound_settings

`outbound_settings`

Outbound settings for ATP events.

Type

A/An Outbound settings for ATP events struct.

Create

The default value is:

```
{'enable_query_fqdn': False, 'query_fqdn_limit': 2}
```

Search

The field is not available for search.

Notes

outbound_settings is associated with the field use_outbound_settings (see use flag).

profile

`profile`

The Threat Protection profile associated with the member.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

use_current_ruleset

`use_current_ruleset`

Use flag for: current_ruleset

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable_multiple_dns_tcp_request

use_disable_multiple_dns_tcp_request

Use flag for: disable_multiple_dns_tcp_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_accel_resp_before_threat_protection

use_enable_accel_resp_before_threat_protection

Use flag for: enable_accel_resp_before_threat_protection

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_nat_rules

use_enable_nat_rules

Use flag for: enable_nat_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_events_per_second_per_rule

use_events_per_second_per_rule

Use flag for: events_per_second_per_rule

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_outbound_settings

`use_outbound_settings`

Use flag for: outbound_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	N	: = ~
current_ruleset	String	N	N	N	=
disable_multiple_dns_tcp_request	Bool	N	N	N	N/A
enable_accel_resp_before_threat_protection	Bool	N	N	N	N/A
enable_nat_rules	Bool	N	N	N	N/A
enable_service	Bool	N	N	N	N/A
events_per_second_per_rule	Unsigned int	N	N	N	N/A
hardware_model	String	N	Y	N	: = ~
hardware_type	String	N	Y	N	: = ~
host_name	String	N	Y	N	=

ipv4address	String	N	Y	N	=
ipv6address	String	N	Y	N	=
nat_rules	[struct]	N	N	N	N/A
outbound_settings	struct	N	N	N	N/A
profile	String	N	N	N	=
use_current_ruleset	Bool	N	N	N	N/A
use_disable_multiple_dns_tcp_request	Bool	N	N	N	N/A
use_enable_accel_resp_before_threat_protection	Bool	N	N	N	N/A
use_enable_nat_rules	Bool	N	N	N	N/A
use_events_per_second_per_rule	Bool	N	N	N	N/A
use_outbound_settings	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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membercloudsync : MemberCloudSync object.
- Object Reference
- Restrictions
- Fields
  - cloud_sync_enabled
  - host_name
  - uuid
- Fields List

Previous topic

member:threatprotection : Member threat protection object.

Next topic

memberdfp : Memberdfp object.

membercloudsync : MemberCloudSync object.

This object represents Cloud Sync fields at member level which supports DNS and vDiscovery. The object membercloud dnssync has been deprecated from NIOS-9.0.4 onwards, and the same will be supported via the object membercloudsync.

Object Reference

References to membercloudsync are object references.

The *name* part of the Cloud Sync object reference has the following components:

- The name of the Cloud Sync object at member level.

Example (using _ref or UUID):

```
# Using _ref
“membercloudsync/b25lLm1lbWJlcl9jbG91ZF9kbnNfc3luY19wcm9wZXJ0aWVzJDA:infoblox.localdomain”

# Using UUID “membercloudsync/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

cloud_sync_enabled

cloud_sync_enabled

Option to enable/disable Cloud Sync.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

host_name

host_name

Host name of the parent Member

Type

String.

Search

The field is not available for search.

Notes

The host_name cannot be updated.

host_name cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_sync_enabled	Bool	N	N	N	N/A
host_name	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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memberdfp : Memberdfp object.
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- Fields List

Previous topic

membercloudsync : MemberCloudSync object.

Next topic

msserver : Microsoft Server object.

memberdfp : Memberdfp object.

This object represents DFP fields at member level

Object Reference

References to memberdfp are object references.

The *name* part of the DFP object reference has the following components:

- The name of the DFP object at member level.

Example (using _ref or UUID):

Using _ref
“memberdfp/b25lLmVuZHBvaW50JDMzOQ:wintermute”

Using UUID
“memberdfp/123e4567e89b12d3a456426614174000

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid**.

dfp_forward_first

`dfp_forward_first`

Option to resolve DNS query if resolution over Active Trust Cloud failed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

host_name

`host_name`

Host name of the parent Member

Type

String.

Search

The field is not available for search.

Notes

The host_name cannot be updated.

host_name cannot be written.

is_dfp_override

`is_dfp_override`

DFP override lock'.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
dfp_forward_first	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
host_name	String	N	Y	N	N/A
is_dfp_override	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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msserver : Microsoft Server object.
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  - ad_sites
  - ad_user
  - address
  - comment
  - connection_status
  - connection_status_detail
  - dhcp_server
  - disabled
  - dns_server
  - dns_view
  - extattrs
  - grid_member
  - last_seen
  - log_destination
  - log_level
  - login_name
  - login_password
  - managing_member
  - ms_max_connection
  - ms_rpc_timeout_in_seconds
  - network_view
  - read_only
  - root_ad_domain
  - server_name
  - synchronization_min_delay
  - synchronization_status
  - synchronization_status_detail
  - use_log_destination
  - use_ms_max_connection
  - use_ms_rpc_timeout_in_seconds
  - uuid
  - version
- Fields List

Previous topic

memberdfp : Memberdfp object.

Next topic

msserver:adsites:domain : Active Directory Domain object.

msserver : Microsoft Server object.

This object represents the Microsoft Server.

Object Reference

References to msserver are object references. The *name* part of a Microsoft Server object reference has the following components:

- The address of the Microsoft Server.

Example:

```
# Using _ref msserver/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1.0.0.1

# Using UUID msserver/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, uuid**.

The following fields are required to create this object:

Field	Notes
address	

ad_domain

`ad_domain`

The Active Directory domain to which this server belongs (if applicable).

Type

String.

Search

The field is not available for search.

Notes

The ad_domain cannot be updated.

ad_domain cannot be written.

ad_sites

`ad_sites`

The Active Directory Sites information

Type

A/An Microsoft Server AD Sites struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

ad_user

`ad_user`

The Active Directory User synchronization information.

Type

A/An Microsoft Server AD user struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

address

`address`

The address or FQDN of the server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)

':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

comment

`comment`

User comments for this Microsoft Server

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

connection_status

`connection_status`

Result of the last RPC connection attempt made

Type

String.

Search

The field is not available for search.

Notes

The connection_status cannot be updated.

connection_status cannot be written.

connection_status_detail

`connection_status_detail`

Detail of the last connection attempt made

Type

String.

Search

The field is not available for search.

Notes

The connection_status_detail cannot be updated.

connection_status_detail cannot be written.

dhcp_server

`dhcp_server`

RW fields needed for DHCP purposes at Microsoft Server level

Type

A/An Microsoft Server DHCP Properties struct for MsServer Object struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

disabled

`disabled`

Allow/forbids usage of this Microsoft Server

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_server

`dns_server`

Structure containing DNS information

Type

A/An Microsoft server DNS struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

dns_view

`dns_view`

Reference to the DNS view

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

grid_member

`grid_member`

Reference to the assigned grid member

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

last_seen

`last_seen`

Timestamp of the last message received

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_seen cannot be updated.

last_seen cannot be written.

log_destination

`log_destination`

Directs logging of sync messages either to syslog or mslog

Type

String.

Valid values are:

- MSLOG
- SYSLOG

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

log_destination is associated with the field use_log_destination (see use flag).

log_level

`log_level`

Log level for this Microsoft Server

Type

String.

Valid values are:

- ADVANCED
- FULL
- MINIMUM
- NORMAL

Create

The default value is *undefined*.

Search

The field is not available for search.

login_name

`login_name`

Microsoft Server login name, with optional domainname

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

login_password

`login_password`

Microsoft Server login password

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

login_password is not readable.

managing_member

`managing_member`

Hostname of grid member managing this Microsoft Server

Type

String.

Search

The field is not available for search.

Notes

The managing_member cannot be updated.

managing_member cannot be written.

ms_max_connection

`ms_max_connection`

Maximum number of connections to MS server

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

Notes

ms_max_connection is associated with the field use_ms_max_connection (see use flag).

ms_rpc_timeout_in_seconds

`ms_rpc_timeout_in_seconds`

Timeout in seconds of RPC connections for this MS Server

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

ms_rpc_timeout_in_seconds is associated with the field use_ms_rpc_timeout_in_seconds (see use flag).

network_view

network_view

Reference to the network view

Type

String.

Create

The default value is *default*.

Search

The field is not available for search.

read_only

read_only

Enable read-only management for this Microsoft Server

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

root_ad_domain

root_ad_domain

The root Active Directory domain to which this server belongs (if applicable).

Type

String.

Search

The field is not available for search.

Notes

The root_ad_domain cannot be updated.

root_ad_domain cannot be written.

server_name

server_name

Gives the server name as reported by itself

Type

String.

Search

The field is not available for search.

Notes

The server_name cannot be updated.

server_name cannot be written.

synchronization_min_delay

synchronization_min_delay

Minimum number of minutes between two synchronizations

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

synchronization_status

synchronization_status

Synchronization status summary

Type

String.

Valid values are:

- ERROR
- OK
- WARNING

Search

The field is not available for search.

Notes

The synchronization_status cannot be updated.

synchronization_status cannot be written.

synchronization_status_detail

`synchronization_status_detail`

Detail status if synchronization_status is ERROR

Type

String.

Search

The field is not available for search.

Notes

The synchronization_status_detail cannot be updated.

synchronization_status_detail cannot be written.

use_log_destination

`use_log_destination`

Override log_destination inherited from grid level

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_max_connection

`use_ms_max_connection`

Override grid ms_max_connection setting

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

use_ms_rpc_timeout_in_seconds

`use_ms_rpc_timeout_in_seconds`

Flag to override cluster RPC timeout

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

Version of the Microsoft Server

Type

String.

Search

The field is not available for search.

Notes

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
ad_domain	String	N	Y	N	N/A
ad_sites	struct	N	N	N	N/A
ad_user	struct	N	N	N	N/A
address	String	Y	N	Y	: = ~
comment	String	N	N	N	N/A
connection_status	String	N	Y	N	N/A
connection_status_detail	String	N	Y	N	N/A
dhcp_server	struct	N	N	N	N/A
disabled	Bool	N	N	N	N/A
dns_server	struct	N	N	N	N/A
dns_view	String	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
grid_member	String	N	N	N	=
last_seen	Timestamp	N	Y	N	N/A
log_destination	String	N	N	N	N/A
log_level	String	N	N	N	N/A
login_name	String	N	N	N	N/A
login_password	String	N	N	N	N/A
managing_member	String	N	Y	N	N/A
ms_max_connection	Unsigned int	N	N	N	N/A
ms_rpc_timeout_in_seconds	Unsigned int	N	N	N	N/A
network_view	String	N	N	N	N/A
read_only	Bool	N	N	N	N/A
root_ad_domain	String	N	Y	N	N/A
server_name	String	N	Y	N	N/A
synchronization_min_delay	Unsigned int	N	N	N	N/A
synchronization_status	String	N	Y	N	N/A
synchronization_status_detail	String	N	Y	N	N/A
use_log_destination	Bool	N	N	N	N/A
use_ms_max_connection	Bool	N	N	N	N/A
use_ms_rpc_timeout_in_seconds	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
version	String	N	Y	N	N/A

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msserver:adsites:domain : Active Directory Domain object.
- Object Reference
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- Fields
  - ea_definition
  - ms_sync_master_name
  - name
  - netbios
  - network_view
  - read_only
  - uuid
- Fields List

Previous topic

msserver : Microsoft Server object.

Next topic

msserver:adsites:site : Active Directory Site object.

msserver:adsites:domain : Active Directory Domain object.

The object provides information about the Active Directory Domain.

Object Reference

References to msserver:adsites:domain are object references. The *name* part of an Active Directory Domain properties object reference has the following components:

- Name of the Active Directory Domain properties object
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref
msserver:adsites:domain/ZG5zLmJpbmRfY25h:somedomain/default

# Using UUID
msserver:adsites:domain/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, netbios, network_view, uuid**.

ea_definition

`ea_definition`

The name of the Extensible Attribute Definition object that is linked to the Active Directory Sites Domain.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ea_definition cannot be updated.

ea_definition cannot be written.

ms_sync_master_name

`ms_sync_master_name`

The IP address or FQDN of the managing master for the MS server, if applicable.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

name

`name`

The name of the Active Directory Domain properties object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

netbios

`netbios`

The NetBIOS name of the Active Directory Domain properties object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The netbios is part of the base object.

The netbios cannot be updated.

netbios cannot be written.

network_view

`network_view`

The name of the network view in which the Active Directory Domain resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

read_only

`read_only`

Determines whether the Active Directory Domain properties object is a read-only object.

Type

Bool.

Search

The field is not available for search.

Notes

The read_only cannot be updated.

read_only cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
ea_definition	String	N	Y	N	=
ms_sync_master_name	String	N	Y	N	N/A
name	String	N	Y	Y	: = ~
netbios	String	N	Y	Y	: = ~

network_view	String	N	Y	Y	=
read_only	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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msserver:adsites:site : Active Directory Site object.
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- Function Calls
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Previous topic

msserver:adsites:domain : Active Directory Domain object.

Next topic

msserver:dhcp : Microsoft Server DHCP properties object.

msserver:adsites:site : Active Directory Site object.

This object provides information about the Active Directory Site.

Object Reference

References to msserver:adsites:site are object references. The *name* part of an Active Directory Site properties object reference has the following components:

- Name of the Active Directory Site properties object
- Name of the Active Directory Domain to which the Site belongs

Example:
msserver:adsites:site/ZG5zLmJpbmRfY25h:somesite/somedomain

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **domain, name**.

The following fields are required to create this object:

Field	Notes
domain	
name	

domain

`domain`

The reference to the Active Directory Domain to which the site

belongs.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The domain is part of the base object.

name

`name`

The name of the site properties object for the Active Directory Sites.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

networks

`networks`

The list of networks to which the device interfaces belong.

Type

An array of the following objects: network, networkcontainer, ipv6network, ipv6networkcontainer.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

Function Calls

move_subnets

This function is used to move subnets to the site for the Active Directory Sites.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

networks (An array of the following objects: network, networkcontainer, ipv6network, ipv6networkcontainer.). This parameter is mandatory. The list of networks associated to this site.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
domain	String	Y	N	Y	=
name	String	Y	N	Y	: = ~
networks	obj	N	N	N	N/A

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msserver:dhcp : Microsoft Server DHCP properties object.
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  - last_sync_ts
  - login_name
  - login_password
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  - read_only
  - server_name
  - static_hosts
  - status
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  - use_login
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  - uuid
- Fields List

Previous topic

msserver:adsites:site : Active Directory Site object.

Next topic

msserver:dns : Microsoft Server DNS properties object.

msserver:dhcp : Microsoft Server DHCP properties object.

This object represents a subset of the Microsoft Server DHCP properties.

Object Reference

References to msserver:dhcp are object references. The *name* part of a Microsoft Server DHCP properties object reference has the following components:

- The address of the Microsoft Server to which the DHCP properties apply.

Example (using _ref or UUID):

```
# Using _ref
msserver:dhcp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1.0.0.1

# Using UUID
msserver:dhcp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, uuid**.

address

`address`

The address or FQDN of the DHCP Microsoft Server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

comment

`comment`

Comment from Microsoft Server

Type

String.

Search

The field is not available for search.

Notes

The comment cannot be updated.

comment cannot be written.

dhcp_utilization

`dhcp_utilization`

The percentage of the total DHCP utilization of DHCP objects belonging to the DHCP Microsoft Server multiplied by 1000. This is the percentage of the total number of available IP addresses from all the DHCP objects belonging to the DHCP Microsoft Server versus the total number of all IP addresses in all of the DHCP objects on the DHCP Microsoft Server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

`dhcp_utilization_status`

A string describing the utilization level of DHCP objects that belong to the DHCP Microsoft Server.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the DHCP objects on the DHCP Microsoft Server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

ipv6_last_sync_ts

`ipv6_last_sync_ts`

Timestamp of the last synchronization attempt

Type

Timestamp.

Search

The field is not available for search.

Notes

The ipv6_last_sync_ts cannot be updated.

ipv6_last_sync_ts cannot be written.

last_sync_ts

`last_sync_ts`

Timestamp of the last synchronization attempt

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_sync_ts cannot be updated.

last_sync_ts cannot be written.

login_name

`login_name`

The login name of the DHCP Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

login_name is associated with the field use_login (see use flag).

login_password

`login_password`

The login password of the DHCP Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

network_view

`network_view`

Network view to update

Type

String.

Search

The field is not available for search.

Notes

The network_view cannot be updated.

network_view cannot be written.

next_sync_control

`next_sync_control`

Defines what control to apply on the DHCP server

Type

String.

Valid values are:

- NONE
- START
- STOP

Create

The default value is *undefined*.

Search

The field is not available for search.

read_only

`read_only`

Whether Microsoft server is read only

Type

Bool.

Search

The field is not available for search.

Notes

The read_only cannot be updated.

read_only cannot be written.

server_name

`server_name`

Microsoft server address

Type

String.

Search

The field is not available for search.

Notes

The server_name cannot be updated.

server_name cannot be written.

static_hosts

`static_hosts`

The number of static DHCP addresses configured in DHCP objects that belong to the DHCP Microsoft Server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

status

`status`

Status of the Microsoft DHCP Service

Type

String.

Valid values are:

- FAILED
- INACTIVE
- OFFLINE
- UNKNOWN
- WARNING
- WORKING

Create

The default value is *undefined*.

Search

The field is not available for search.

status_detail

`status_detail`

Detailed status of the DHCP status

Type

String.

Search

The field is not available for search.

Notes

The status_detail cannot be updated.

status_detail cannot be written.

status_last_updated

`status_last_updated`

Timestamp of the last update

Type

Timestamp.

Search

The field is not available for search.

Notes

The status_last_updated cannot be updated.

status_last_updated cannot be written.

supports_failover

`supports_failover`

Flag indicating if the DHCP supports Failover

Type

Bool.

Search

The field is not available for search.

Notes

The supports_failover cannot be updated.

supports_failover cannot be written.

synchronization_interval

`synchronization_interval`

The minimum number of minutes between two synchronizations.

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

Notes

synchronization_interval is associated with the field use_synchronization_interval (see use flag).

total_hosts

`total_hosts`

The total number of DHCP addresses configured in DHCP objects that belong to the DHCP Microsoft Server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

use_login

`use_login`

Use flag for: login_name , login_password

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_synchronization_interval

`use_synchronization_interval`

Use flag for: synchronization_interval

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	: = ~
comment	String	N	Y	N	N/A
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
ipv6_last_sync_ts	Timestamp	N	Y	N	N/A
last_sync_ts	Timestamp	N	Y	N	N/A
login_name	String	N	N	N	N/A
login_password	String	N	N	N	N/A
network_view	String	N	Y	N	N/A
next_sync_control	String	N	N	N	N/A
read_only	Bool	N	Y	N	N/A
server_name	String	N	Y	N	N/A
static_hosts	Unsigned int	N	Y	N	N/A
status	String	N	N	N	N/A
status_detail	String	N	Y	N	N/A
status_last_updated	Timestamp	N	Y	N	N/A
supports_failover	Bool	N	Y	N	N/A
synchronization_interval	Unsigned int	N	N	N	N/A

total_hosts	Unsigned int	N	Y	N	N/A
use_login	Bool	N	N	N	N/A
use_synchronization_interval	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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msserver:dns : Microsoft Server DNS properties object.
- Object Reference
- Restrictions
- Fields
  - address
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  - login_name
  - login_password
  - synchronization_interval
  - use_enable_dns_reports_sync
  - use_login
  - use_synchronization_interval
  - uuid
- Fields List

Previous topic

msserver:dhcp : Microsoft Server DHCP properties object.

Next topic

mssuperscope : Microsoft DHCP superscope object.

msserver:dns : Microsoft Server DNS properties object.

This object represents a subset of the Microsoft Server DNS properties.

Object Reference

References to msserver:dns are object references. The *name* part of a Microsoft Server DNS properties object reference has the following components:

- The address of the Microsoft Server to which the DNS properties apply.

Example (using _ref or UUID):

```
# Using _ref
msserver:dns/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1.0.0.1

# Using UUID
msserver:dns/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, uuid**.

address

`address`

The address or FQDN of the DNS Microsoft Server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

The address cannot be updated.

address cannot be written.

enable_dns_reports_sync

`enable_dns_reports_sync`

Determines if synchronization of DNS reporting data from the Microsoft server is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dns_reports_sync is associated with the field use_enable_dns_reports_sync (see use flag).

login_name

`login_name`

The login name of the DNS Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

login_name is associated with the field use_login (see use flag).

login_password

`login_password`

The login password of the DNS Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

synchronization_interval

`synchronization_interval`

The minimum number of minutes between two synchronizations.

Type

Unsigned integer.

Create

The default value is *2*.

Search

The field is not available for search.

Notes

synchronization_interval is associated with the field use_synchronization_interval (see use flag).

use_enable_dns_reports_sync

`use_enable_dns_reports_sync`

Use flag for: enable_dns_reports_sync

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_login

`use_login`

Use flag for: login_name , login_password

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_synchronization_interval

`use_synchronization_interval`

Use flag for: synchronization_interval

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	Y	: = ~
enable_dns_reports_sync	Bool	N	N	N	N/A
login_name	String	N	N	N	N/A
login_password	String	N	N	N	N/A
synchronization_interval	Unsigned int	N	N	N	N/A
use_enable_dns_reports_sync	Bool	N	N	N	N/A
use_login	Bool	N	N	N	N/A
use_synchronization_interval	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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mssuperscope : Microsoft DHCP superscope object.
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  - network_view
  - ranges
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  - uuid
- Fields List

Previous topic

msserver:dns : Microsoft Server DNS properties object.

Next topic

multiregions : MultiRegions object.

mssuperscope : Microsoft DHCP superscope object.

This object represents a superscope feature of Microsoft DHCP server. You can use a superscope to group and activate multiple ranges via a single object.

Object Reference

References to mssuperscope are object references.

The *name* part of the Microsoft DHCP superscope object reference has the following components:

- The name of the Microsoft DHCP superscope
- The name of the network view where the Microsoft DHCP superscope resides

Example (using _ref or UUID):

```
# Using _ref
mssuperscope/ZG5zLmJpbmRfY25h:scopename/networkviewname

# Using UUID
mssuperscope/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **disable, name, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
name	
ranges	

comment

comment

The superscope descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

dhcp_utilization

dhcp_utilization

The percentage of the total DHCP usage of the ranges in the superscope.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

dhcp_utilization_status

Utilization level of the DHCP range objects that belong to the superscope.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

disable

`disable`

Determines whether the superscope is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the DHCP range objects that belong to the superscope.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

high_water_mark

`high_water_mark`

The percentage value for DHCP range usage after which an alarm will be active.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The high_water_mark cannot be updated.

high_water_mark cannot be written.

high_water_mark_reset

`high_water_mark_reset`

The percentage value for DHCP range usage after which an alarm will be reset.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The high_water_mark_reset cannot be updated.

high_water_mark_reset cannot be written.

low_water_mark

`low_water_mark`

The percentage value for DHCP range usage below which an alarm will be active.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The low_water_mark cannot be updated.

low_water_mark cannot be written.

low_water_mark_reset

`low_water_mark_reset`

The percentage value for DHCP range usage below which an alarm will be reset.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The low_water_mark_reset cannot be updated.

low_water_mark_reset cannot be written.

name

`name`

The name of the Microsoft DHCP superscope.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view in which the superscope resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default network view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The network_view is part of the base object.

ranges

`ranges`

The list of DHCP ranges that are associated with the superscope.

Type

A/An range object array.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is not available for search.

static_hosts

`static_hosts`

The number of static DHCP addresses configured in DHCP range objects that belong to the superscope.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

total_hosts

`total_hosts`

The total number of DHCP addresses configured in DHCP range objects that belong to the superscope.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
disable	Bool	N	N	Y	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
high_water_mark	Unsigned int	N	Y	N	N/A
high_water_mark_reset	Unsigned int	N	Y	N	N/A
low_water_mark	Unsigned int	N	Y	N	N/A
low_water_mark_reset	Unsigned int	N	Y	N	N/A
name	String	Y	N	Y	: = ~
network_view	String	N	N	Y	=
ranges	[obj]	Y	N	N	N/A
static_hosts	Unsigned int	N	Y	N	N/A
total_hosts	Unsigned int	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~

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multiregions : MultiRegions object.
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- Restrictions
- Fields
  - cloud_platform
  - govcloud_regions
  - regions
  - uuid
- Fields List

Previous topic

mssuperscope : Microsoft DHCP superscope object.

Next topic

namedacl : Named ACL object.

multiregions : MultiRegions object.

The MultiRegions object is used to store supported regions for different cloud platforms.

Object Reference

References to multiregions are object references.

The *regions* part of the MultiRegion object reference has the following components:

- Comma separated string of regions.

Example (using _ref or UUID):

```
# Using _ref
multiregions/ZG5zLm11bHRpX3JlZ2lvbnMkQVdT

# Using UUID
multiregions/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **cloud_platform, regions, uuid**.

cloud_platform

`cloud_platform`

Type of cloud_platform to get the supported regions.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The cloud_platform is part of the base object.

govcloud_regions

`govcloud_regions`

Comma separated sting containing only GovCloud supported regions.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

regions

`regions`

Comma separated string which contains all supported regions.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The regions is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_platform	String	N	N	Y	: = ~
govcloud_regions	String	N	N	N	=

regions	String	N	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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namedacl : Named ACL object.
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- Function Calls
  - validate_acl_items
- Fields List

Previous topic

multiregions : MultiRegions object.

Next topic

natgroup : Network Address Translation group object.

namedacl : Named ACL object.

A named ACL (Access Control List) is a list of IPv4/IPv6 addresses, networks, TSIG-based anonymous access controls, and other named ACLs, to which you can grant or deny permission for operations such as dynamic DNS updates or zone transfers.

Object Reference

References to namedacl are object references.

The *name* part of the named ACL object reference has the following components:

- The name of the named ACL object

Example (using _ref or UUID):

```
# Using _ref
namedacl/ZG5zLm5ldHdvcmtfdmlldyQxMTk:ACL1

# Using UUID
namedacl/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

access_list

access_list

The access control list of IPv4/IPv6 addresses, networks, TSIG-based anonymous access controls, and other named ACLs.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

comment

comment

Comment for the named ACL; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

exploded_access_list

exploded_access_list

The exploded access list for the named ACL. This list displays

all the access control entries in a named ACL and its nested named ACLs, if applicable.

Type

One of the following: Address ac struct, TSIG ac struct array.

Search

The field is not available for search.

Notes

The exploded_access_list cannot be updated.

exploded_access_list cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name of the named ACL.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

validate_acl_items

This function is used to validate ACL items and return the validated result in a CSV file format if the validation fails, and return nothing if validation succeeds.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

Fields List

Field	Type	Req	R/O	Base	Search
access_list	[struct]	N	N	N	N/A
comment	String	N	N	Y	: = ~
exploded_access_list	[struct]	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Next topic

network : DHCP Network object.

natgroup : Network Address Translation group object.

NAT groups are necessary if the Grid master is behind a NAT device and there are members behind both side of the NAT device. Any member on the same side as the master goes into the same NAT group as the master and uses its interface address for Grid communication. Grid members on the other side of that NAT device do not go into the same NAT group as the master and use the master's NAT address for Grid communication.

Object Reference

References to natgroup are object references.

The *name* part of the natgroup object reference has the following components:

- The name of the NAT group object.

Example (using _ref or UUID):

```
# Using _ref natgroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:nat1

# Using UUID natgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The NAT group descriptive comment.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

name

`name`

The name of a NAT group object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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network : DHCP Network object.

When DHCP services are configured on an appliance, the network that it serves must be defined. After a network is created, you can either create all the subnets individually, or create a parent network that encompasses the subnets.

Object Reference

References to network are object references. The *name* part of a network object reference has the following components:

- Address of the network
- CIDR of the network
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref network/5ldHdvcmskMTEuMC4:10.0.0.0/8/external

# Using UUID network/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, network, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
network	

authority

`authority`

Authority for the DHCP network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

authority is associated with the field use_authority (see use flag).

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The auto_create_reversezone cannot be updated.

auto_create_reversezone is not readable.

bootfile

`bootfile`

The bootfile name for the network. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the network. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

cloud_shared

`cloud_shared`

Boolean flag to indicate if the network is shared with cloud.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

`comment`

Comment for the network, maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

conflict_count

`conflict_count`

The number of conflicts discovered via network discovery.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The conflict_count cannot be updated.

conflict_count cannot be written.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

`ddns_generate_hostname`

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP clients requests. Note that changes for this field take effect only if ddns_use_option81 is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of a DHCP network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_update_fixed_addresses

`ddns_update_fixed_addresses`

By default, the DHCP server does not update DNS when it allocates a fixed address to a client. You can configure the DHCP server to update the A and PTR records of a client with a fixed address. When this feature is enabled and the DHCP server adds A and PTR records for a fixed address, the DHCP server never discards the records.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_update_fixed_addresses is associated with the field use_ddns_update_fixed_addresses (see use flag).

ddns_use_option81

`ddns_use_option81`

The support for DHCP Option 81 at the network level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

delete_reason

`delete_reason`

The reason for deleting the RIR registration request.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

delete_reason is not readable.

deny_bootp

`deny_bootp`

If set to true, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

dhcp_utilization

`dhcp_utilization`

The percentage of the total DHCP utilization of the network multiplied by 1000. This is the percentage of the total number of available IP addresses belonging to the network versus the total number of all IP addresses in network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

`dhcp_utilization_status`

A string describing the utilization level of the network.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

disable

`disable`

Determines whether a network is disabled or not. When this is set to False, the network is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

Discover now status for this network.

Type

String.

Valid values are:

- COMPLETE
- FAILED

- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_bgp_as

`discovered_bgp_as`

Number of the discovered BGP AS.

When multiple BGP autonomous systems are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_bgp_as cannot be updated.

discovered_bgp_as cannot be written.

discovered_bridge_domain

`discovered_bridge_domain`

Discovered bridge domain.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

discovered_tenant

`discovered_tenant`

Discovered tenant.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

discovered_vlan_id

`discovered_vlan_id`

The identifier of the discovered VLAN.

When multiple VLANs are discovered in the network, this field displays "Multiple".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The discovered_vlan_id cannot be updated.

discovered_vlan_id cannot be written.

discovered_vlan_name

`discovered_vlan_name`

The name of the discovered VLAN.

When multiple VLANs are discovered in the network, this field displays "Multiple".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

The discovered_vlan_name cannot be updated.

discovered_vlan_name cannot be written.

discovered_vrf_description

`discovered_vrf_description`

Description of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_vrf_description cannot be updated.

discovered_vrf_description cannot be written.

discovered_vrf_name

`discovered_vrf_name`

The name of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_vrf_name cannot be updated.

discovered_vrf_name cannot be written.

discovered_vrf_rd

`discovered_vrf_rd`

Route distinguisher of the discovered VRF.

When multiple VRFs are discovered in the network, this field displays “Multiple”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The discovered_vrf_rd cannot be updated.

discovered_vrf_rd cannot be written.

discovery_basic_poll_settings

`discovery_basic_poll_settings`

The discovery basic poll settings for this network.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

`discovery_blackout_setting`

The discovery blackout setting for this network.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_engine_type

discovery_engine_type

The network discovery engine type.

Type

String.

Valid values are:

- NETMRI
- NETWORK_INSIGHT
- NONE
- UNKNOWN
- VDISCOVERY

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_engine_type cannot be updated.

discovery_engine_type cannot be written.

discovery_member

discovery_member

The member that will run discovery for this network.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

dynamic_hosts

dynamic_hosts

The total number of DHCP leases issued for the network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

email_list

email_list

The e-mail lists to which the appliance sends DHCP threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

enable_ddns

The dynamic DNS updates flag of a DHCP network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp_thresholds

enable_dhcp_thresholds

Determines if DHCP thresholds are enabled for the network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_discovery

`enable_discovery`

Determines whether a discovery is enabled or not for this network. When this is set to False, the network discovery is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_email_warnings

`enable_email_warnings`

Determines if DHCP threshold warnings are sent through email.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ifmap_publishing

`enable_ifmap_publishing`

Determines if IFMAP publishing is enabled for the network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ifmap_publishing is associated with the field use_enable_ifmap_publishing (see use flag).

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the network should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

`enable_snmp_warnings`

Determines if DHCP threshold warnings are send through SNMP.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

endpoint_sources

endpoint_sources

The endpoints that provides data for the DHCP Network object.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

federated_realms

federated_realms

This field contains the federated realms associated to this network

Type

A/An Federated Realms struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

high_water_mark

high_water_mark

The percentage of DHCP network usage threshold above which network usage is not expected and may warrant your attention. When the high watermark is reached, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

`high_water_mark_reset`

The percentage of DHCP network usage below which the corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ignore_id

`ignore_id`

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses. Valid values

are “NONE”, “CLIENT”, or “MACADDR”. The default is “NONE”.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

ignore_id is associated with the field use_ignore_id (see use flag).

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ipam_email_addresses

`ipam_email_addresses`

The e-mail lists to which the appliance sends IPAM threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipam_email_addresses is associated with the field use_ipam_email_addresses (see use flag).

ipam_threshold_settings

`ipam_threshold_settings`

The IPAM Threshold settings for this network.

Type

A/An IPAM Threshold Settings struct.

Create

The default value is:

```
{'reset_value': 85, 'trigger_value': 95}
```

Search

The field is not available for search.

Notes

ipam_threshold_settings is associated with the field use_ipam_threshold_settings (see use flag).

ipam_trap_settings

`ipam_trap_settings`

The IPAM Trap settings for this network.

Type

A/An IPAM Trap Settings struct.

Create

The default value is:

```
{'enable_email_warnings': False, 'enable_snmp_warnings': True}
```

Search

The field is not available for search.

Notes

ipam_trap_settings is associated with the field use_ipam_trap_settings (see use flag).

ipv4addr

`ipv4addr`

The IPv4 Address of the network.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

last_rir_registration_update_sent

`last_rir_registration_update_sent`

The timestamp when the last RIR registration update was sent.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_rir_registration_update_sent cannot be updated.

last_rir_registration_update_sent cannot be written.

last_rir_registration_update_status

`last_rir_registration_update_status`

Last RIR registration update status.

Type

String.

Search

The field is not available for search.

Notes

The last_rir_registration_update_status cannot be updated.

last_rir_registration_update_status cannot be written.

lease_scavenge_time

`lease_scavenge_time`

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted. To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this network.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

`low_water_mark`

The percentage of DHCP network usage below which the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

`low_water_mark_reset`

The percentage of DHCP network usage threshold below which network usage is not expected and may warrant your attention. When the low watermark is crossed, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

members

`members`

A list of members or Microsoft (r) servers that serve DHCP for this network.

All members in the array must be of the same type. The struct type must be indicated in each element, by setting the "_struct" member to the struct type.

Type

One of the following: Grid member serving DHCP struct, MS DHCP server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

mgm_private is associated with the field use_mgm_private (see use flag).

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

netmask

`netmask`

The netmask of the network in CIDR format.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

network

`network`

The network address in IPv4 Address/CIDR format. For regular expression searches, only the IPv4 Address portion is supported. Searches for the CIDR portion is always an exact match.

For example, both network containers 10.0.0.0/8 and 20.1.0.0/16 are matched by expression '.0' and only 20.1.0.0/16 is matched by '.0/16'.

Type

String.

The field also supports automatic selection of the next available network with selected CIDR in the specified network or network container. You can specify the network or network container in the following ways:

Using a network or network container WAPI reference:

- func:nextavailablenetwork:<reference>,<CIDR>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailablenetwork:<network>[,<network view>],<CIDR>

Scheduled and approval operations are not supported when using the automatic network selection.

If you specify a network view for automatic network selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic network selection is not used for the actual object insertion.

If the grid has multiple network views, it is recommended to specify the network view information in the input data when calling the

next_available_network function and also specify the same network view for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablenetwork:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default,16
- func:nextavailablenetwork:10.0.0.0/8,16
- func:nextavailablenetwork:10.0.0.0/8,external,16

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_network function call in object network (default parameters: **{'num': 1}**)
- the next_available_network function call in object networkcontainer (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_container

`network_container`

The network container to which this network belongs (if any).

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_container cannot be updated.

network_container cannot be written.

network_view

`network_view`

The name of the network view in which this network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default Network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

nextserver

nextserver

The name in FQDN and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

port_control_blackout_setting

port_control_blackout_setting

The port control blackout setting for this network.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting (see use flag).

pxe_lease_time

`pxe_lease_time`

The PXE lease time value of a DHCP Network object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

recycle_leases

`recycle_leases`

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rir

`rir`

The registry (RIR) that allocated the network address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

`rir_organization`

The RIR organization associated with the network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The RIR registration action.

Type

String.

Valid values are:

- CREATE
- DELETE
- MODIFY
- NONE

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

rir_registration_action is not readable.

rir_registration_status

`rir_registration_status`

The registration status of the network in RIR.

Type

String.

Valid values are:
- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field use_blackout_setting (see use flag).

send_rir_request

`send_rir_request`

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

send_rir_request is not readable.

static_hosts

`static_hosts`

The number of static DHCP addresses configured in the network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

subscribe_settings

`subscribe_settings`

The DHCP Network Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

template

`template`

If set on creation, the network is created according to the values specified in the selected template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

total_hosts

`total_hosts`

The total number of DHCP addresses configured in the network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

unmanaged

`unmanaged`

Determines whether the DHCP IPv4 Network is unmanaged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

unmanaged_count

`unmanaged_count`

The number of unmanaged IP addresses as discovered by network discovery.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The unmanaged_count cannot be updated.

unmanaged_count cannot be written.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_authority

`use_authority`

Use flag for: authority

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_blackout_setting

`use_blackout_setting`

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

use_ddns_ttl

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_update_fixed_addresses

use_ddns_update_fixed_addresses

Use flag for: ddns_update_fixed_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

use_ddns_use_option81

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

use_deny_bootp

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

`use_discovery_basic_polling_settings`

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

`use_email_list`

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

`use_enable_dhcp_thresholds`

Use flag for: enable_dhcp_thresholds

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

use_enable_discovery

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ifmap_publishing

use_enable_ifmap_publishing

Use flag for: enable_ifmap_publishing

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_id

use_ignore_id

Use flag for: ignore_id

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_email_addresses

`use_ipam_email_addresses`

Use flag for: ipam_email_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_threshold_settings

`use_ipam_threshold_settings`

Use flag for: ipam_threshold_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_trap_settings

`use_ipam_trap_settings`

Use flag for: ipam_trap_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

use_lease_scavenge_time

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgm_private

use_mgm_private

Use flag for: mgm_private

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

use_recycle_leases

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

use_subscribe_settings

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_zone_associations

`use_zone_associations`

Use flag for: zone_associations

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

utilization

`utilization`

The network utilization in percentage.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The utilization cannot be updated.

utilization cannot be written.

utilization_update

`utilization_update`

The timestamp when the utilization statistics were last updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The utilization_update cannot be updated.

utilization_update cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vlans

`vlans`

List of VLANs assigned to Network.

Type

A/An VLAN link struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

zone_associations

`zone_associations`

The list of zones associated with this network.

Type

A/An Zone association struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

zone_associations is associated with the field use_zone_associations (see use flag).

Function Calls

expand_network

This function reduces the subnet masks of a network by joining all networks that fall under it. All the ranges and fixed addresses of the original networks are reparented to the new joined network. Any network containers that fall inside the bounds of the joined network are removed. The member assignments for all the encompassed networks are joined together. The default router, broadcast address, and subnet mask overridden from the joined network, including the ranges and fixed addresses, are all cleaned up.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones.

option_delete_ea (String. Valid values are: “RETAIN”, “REMOVE”) The option to be applied on deleted networks with existing extensible attribute.

prefix (Unsigned integer.). This parameter is mandatory. The netmask of the networks after the expand operation.

Output fields

network (String.) The reference to the resulting network that is created after the expand operation.

next_available_ip

This function retrieves the next available IP in the network.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of IP addresses to exclude.

num (Unsigned integer.) The number of IP addresses you are requesting.

Output fields

ips (String array.) The requested IP addresses.

next_available_network

This function will retrieve the next available network in the network.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

cidr (Unsigned integer.) The CIDR of the requested network(s). This is a required parameter.

exclude (String array.) An array of networks you want to exclude from the results.

num (Unsigned integer.) The number of networks you are requesting.

Output fields

networks (String array.) The requested network(s).

next_available_vlan

This function retrieves the next available VLANs for network to assign by given VLAN View/Range as parent.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of VLAN IDs to exclude.

num (Unsigned integer.) The number of VLANs you are requesting.

Output fields

vlans (A/An vlan object array.) The requested VLANs. The default value is “[]”.

resize

This function will resize the current network.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones.

prefix (Unsigned integer.). This parameter is mandatory. The netmask of the network after resizing.

reason (String.) The reason for resizing the network.

send_rir_request (Bool.) Determines if it is required to send a request to update RIR registration.

Output fields

None

split_network

This function will split the current network into multiple smaller networks.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

add_all_subnetworks (Bool.) If this flag is True, then all possible subnets will be added. Otherwise, only networks with fixed addresses will be added.

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones for the subnets.

inherit_attributes (Bool.) Determines if extensible attributes from the pre-split network will be inherited by the resulting networks.

prefix (Unsigned integer.). This parameter is mandatory. The appropriate subnet mask for each subnet created after splitting the network.

Output fields

None

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

contains_address

`contains_address`

When specified in searches, the returned network is the smallest network that contains this IPv4 Address.

If specified, all other search attributes are ignored, except for network_view.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

contains_address is a search-only field.

member

`member`

Used for searching networks by members that serve the network. The input value must be "dhcpmember,ipv4address[,name]" to search by Grid DHCP member by its IPv4 address, or "ipv6dhcpmember,ipv6address[,name]" to search by Grid DHCP member by its IPv6 address, or "msdhcpserver,ipv4address" to search by Microsoft DHCP server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

member is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
authority	Bool	N	N	N	N/A
auto_create_reversezone	Bool	N	N	N	N/A

bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
cloud_shared	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
conflict_count	Unsigned int	N	Y	N	N/A
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
delete_reason	String	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
disable	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovered_bgp_as	String	N	Y	N	: = ~
discovered_bridge_domain	String	N	N	N	: = ~
discovered_tenant	String	N	N	N	: = ~
discovered_vlan_id	String	N	Y	N	: = ~
discovered_vlan_name	String	N	Y	N	: = ~
discovered_vrf_description	String	N	Y	N	: = ~
discovered_vrf_name	String	N	Y	N	: = ~
discovered_vrf_rd	String	N	Y	N	: = ~
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_engine_type	String	N	Y	N	=
discovery_member	String	N	N	N	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_ifmap_publishing	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
endpoint_sources	[obj]	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
federated_realms	[struct]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A
ipam_email_addresses	[String]	N	N	N	N/A
ipam_threshold_settings	struct	N	N	N	N/A
ipam_trap_settings	struct	N	N	N	N/A
ipv4addr	String	N	N	N	= ~

last_rir_registration_update_sent	Timestamp	N	Y	N	N/A
last_rir_registration_update_status	String	N	Y	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
members	[struct]	N	N	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
netmask	Unsigned int	N	N	N	N/A
network	String	Y	N	Y	= ~
network_container	String	N	Y	N	=
network_view	String	N	N	Y	=
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
rir	String	N	Y	N	=
rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
static_hosts	Unsigned int	N	Y	N	N/A
subscribe_settings	struct	N	N	N	N/A
template	String	N	N	N	N/A
total_hosts	Unsigned int	N	Y	N	N/A
unmanaged	Bool	N	N	N	=
unmanaged_count	Unsigned int	N	Y	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_authority	Bool	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_update_fixed_addresses	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A
use_enable_ifmap_publishing	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ignore_id	Bool	N	N	N	N/A

use_ipam_email_addresses	Bool	N	N	N	N/A
use_ipam_threshold_settings	Bool	N	N	N	N/A
use_ipam_trap_settings	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_mgm_private	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_zone_associations	Bool	N	N	N	N/A
utilization	Unsigned int	N	Y	N	N/A
utilization_update	Timestamp	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
vlans	[struct]	N	N	N	N/A
zone_associations	[struct]	N	N	N	N/A

Search-only Fields List

Field	Type	Search
contains_address	String	=
member	String	=

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network_discovery : Network discovery object.
- Object Reference
- Restrictions
- Fields
- Function Calls
  - clear_discovery_data

Previous topic

network : DHCP Network object.

Next topic

networkcontainer : DHCP Network Container object.

network_discovery : Network discovery object.

This object can be used to control the network discovery process.

Object Reference

This object cannot be retrieved from the appliance, hence it does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Read (retrieve)
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

Fields

The object does not support any fields.

Function Calls

clear_discovery_data

Reset the discovery data on all discovered or converted objects.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

ip_address (String.) IP address to be cleared. This parameter is mandatory if scope is ‘IP_ADDRESS’.

network (String.) Network containing IP objects to be cleared. This parameter is mandatory if scope is ‘NETWORK’ or ‘IP_ADDRESS’.

network_view (String.) Network view name containing IP objects to be cleared. This parameter is optional (‘default’ network view is used by default).

scope (String. Valid values are: “GLOBAL”, “TENANT”, “NETWORK”, “IP_ADDRESS”, “VDISCOVERY_TASK”). This parameter is mandatory. Discovery data scope to clear.

tenant (String.) Tenant containing the IP objects to be cleared. This parameter is mandatory if scope is ‘TENANT’.

usage (String. Valid values are: “UNMANAGED”, “MANAGED”, “ALL”) Discovery data usage to clear. The value ‘ALL’ is allowed only for the ‘VDISCOVERY_TASK’ scope. The default value is “MANAGED”.

vdiscovery_task (String.) VDiscoveryTask containing the IP objects to be cleared. This parameter is mandatory if scope is ‘VDISCOVERY_TASK’.

Output fields

None

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networkcontainer : DHCP Network Container object.
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  - low_water_mark_reset

networkcontainer : DHCP Network Container object.

A network can contain child networks. The network that contains child networks is called a network container. This object encapsulates an IPv4 network container object.

Object Reference

References to networkcontainer are object references. The *name* part of a network container object reference has the following components:

- FQDN of the network
- CIDR for the network
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref networkcontainer/5ldHdvcmskMTEuMC4:10.0.0.0/8/external

# Using UUID networkcontainer/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, network, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
network	

authority

`authority`

Authority for the DHCP network container.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

authority is associated with the field use_authority (see use flag).

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The auto_create_reversezone cannot be updated.

auto_create_reversezone is not readable.

bootfile

`bootfile`

The boot server IPv4 Address or name in FQDN format for the network container. You can specify the name and/or IP address of the boot server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the network container. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for the network container; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network container.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

ddns_generate_hostname

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

ddns_server_always_updates

This field controls whether the DHCP server is allowed to update DNS, regardless of the DHCP client requests. Note that changes for this field take effect only if ddns_use_option81 is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

ddns_ttl

The DNS update Time to Live (TTL) value of a DHCP network container object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_update_fixed_addresses

`ddns_update_fixed_addresses`

By default, the DHCP server does not update DNS when it allocates a fixed address to a client. You can configure the DHCP server to update the A and PTR records of a client with a fixed address. When this feature is enabled and the DHCP server adds A and PTR records for a fixed address, the DHCP server never discards the records.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_update_fixed_addresses is associated with the field use_ddns_update_fixed_addresses (see use flag).

ddns_use_option81

`ddns_use_option81`

The support for DHCP Option 81 at the network container level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

delete_reason

`delete_reason`

The reason for deleting the RIR registration request.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

delete_reason is not readable.

deny_bootp

deny_bootp

If set to True, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

discover_now_status

discover_now_status

Discover now status for this network container.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovery_basic_poll_settings

discovery_basic_poll_settings

The discovery basic poll settings for this network container.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
{ 'auto arp refresh before switch port polling': True,
```

```
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

discovery_blackout_setting

The discovery blackout setting for this network container.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_engine_type

discovery_engine_type

The network discovery engine type.

Type

String.

Valid values are:

- NETMRI
- NETWORK_INSIGHT
- NONE
- UNKNOWN
- VDISCOVERY

Search

The field is available for search via

- '=' (exact equality)

Notes

The discovery_engine_type cannot be updated.

discovery_engine_type cannot be written.

discovery_member

`discovery_member`

The member that will run discovery for this network container.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

email_list

`email_list`

The e-mail lists to which the appliance sends DHCP threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP network container object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp_thresholds

enable_dhcp_thresholds

Determines if DHCP thresholds are enabled for the network container.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_discovery

enable_discovery

Determines whether a discovery is enabled or not for this network container. When this is set to False, the network container discovery is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_email_warnings

enable_email_warnings

Determines if DHCP threshold warnings are sent through email.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_immediate_discovery

enable_immediate_discovery

Determines if the discovery for the network container should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

enable_pxe_lease_time

enable_pxe_lease_time

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

enable_snmp_warnings

Determines if DHCP threshold warnings are send through SNMP.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

endpoint_sources

endpoint_sources

The endpoints that provides data for the DHCP Network Container object.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

federated_realms

`federated_realms`

This field contains the federated realms associated to this network container.

Type

A/An Federated Realms struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

high_water_mark

`high_water_mark`

The percentage of DHCP network container usage threshold above which network container usage is not expected and may warrant your attention. When the high watermark is reached, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

high_water_mark_reset

The percentage of DHCP network container usage below which the corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

ignore_dhcp_option_list_request

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ignore_id

ignore_id

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

ignore_id is associated with the field use_ignore_id (see use flag).

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

ipam_email_addresses

`ipam_email_addresses`

The e-mail lists to which the appliance sends IPAM threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipam_email_addresses is associated with the field use_ipam_email_addresses (see use flag).

ipam_threshold_settings

`ipam_threshold_settings`

The IPAM Threshold settings for this network container.

Type

A/An IPAM Threshold Settings struct.

Create

The default value is:

```
{'reset_value': 85, 'trigger_value': 95}
```

Search

The field is not available for search.

Notes

ipam_threshold_settings is associated with the field use_ipam_threshold_settings (see use flag).

ipam_trap_settings

`ipam_trap_settings`

The IPAM Trap settings for this network container.

Type

A/An IPAM Trap Settings struct.

Create

The default value is:

```
{'enable_email_warnings': False, 'enable_snmp_warnings': True}
```

Search

The field is not available for search.

Notes

ipam_trap_settings is associated with the field use_ipam_trap_settings (see use flag).

last_rir_registration_update_sent

`last_rir_registration_update_sent`

The timestamp when the last RIR registration update was sent.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_rir_registration_update_sent cannot be updated.

last_rir_registration_update_sent cannot be written.

last_rir_registration_update_status

`last_rir_registration_update_status`

Last RIR registration update status.

Type

String.

Search

The field is not available for search.

Notes

The last_rir_registration_update_status cannot be updated.

last_rir_registration_update_status cannot be written.

lease_scavenge_time

lease_scavenge_time

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted. To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

logic_filter_rules

This field contains the logic filters to be applied on the this network container.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

low_water_mark

The percentage of DHCP network container usage below which the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

`low_water_mark_reset`

The percentage of DHCP network container usage threshold below which network container usage is not expected and may warrant your attention. When the low watermark is crossed, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

mgm_private is associated with the field use_mgm_private (see use flag).

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network address in IPv4 Address/CIDR format. For regular expression searches, only the IPv4 Address portion is supported. Searches for the CIDR portion is always an exact match.

For example, both network containers 10.0.0.0/8 and 20.1.0.0/16 are matched by expression '.0' and only 20.1.0.0/16 is matched by '.0/16'.

Type

String.

The field also supports automatic selection of the next available network with selected CIDR in the specified network or network container. You can specify the network or network container in the following ways:

Using a network or network container WAPI reference:

- func:nextavailablenetwork:<reference>,<CIDR>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailablenetwork:<network>[,<network view>],<CIDR>

Scheduled and approval operations are not supported when using the automatic network selection.

If you specify a network view for automatic network selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic network selection is not used for the actual object insertion.

If the grid has multiple network views, it is recommended to specify the network view information in the input data when calling the next_available_network function and also specify the same network view for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablenetwork:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default,16
- func:nextavailablenetwork:10.0.0.0/8,16
- func:nextavailablenetwork:10.0.0.0/8,external,16

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_network function call in object networkcontainer (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_container

`network_container`

The network container to which this network belongs, if any.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_container cannot be updated.

network_container cannot be written.

network_view

`network_view`

The name of the network view in which this network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

port_control_blackout_setting

port_control_blackout_setting

The port control blackout setting for this network container.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting (see use flag).

pxe_lease_time

pxe_lease_time

The PXE lease time value of a DHCP Network container object. Some hosts use PXE

(Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

recycle_leases

`recycle_leases`

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rir

`rir`

The registry (RIR) that allocated the network container address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

`rir_organization`

The RIR organization associated with the network container.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The RIR registration action.

Type

String.

Valid values are:

- CREATE
- DELETE
- MODIFY
- NONE

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

rir_registration_action is not readable.

rir_registration_status

`rir_registration_status`

The registration status of the network container in RIR.

Type

String.

Valid values are:

- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field use_blackout_setting (see use flag).

send_rir_request

`send_rir_request`

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

send_rir_request is not readable.

subscribe_settings

`subscribe_settings`

The DHCP Network Container Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

unmanaged

`unmanaged`

Determines whether the network container is unmanaged or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field

use_update_dns_on_lease_renewal (see use flag).

use_authority

use_authority

Use flag for: authority

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_blackout_setting

use_blackout_setting

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

use_bootfile

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

use_bootserver

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

`use_ddns_ttl`

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_update_fixed_addresses

`use_ddns_update_fixed_addresses`

Use flag for: ddns_update_fixed_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

use_ddns_use_option81

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

use_deny_bootp

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

use_discovery_basic_polling_settings

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

use_email_list

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

`use_enable_dhcp_thresholds`

Use flag for: enable_dhcp_thresholds

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

`use_enable_discovery`

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_id

use_ignore_id

Use flag for: ignore_id

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_email_addresses

use_ipam_email_addresses

Use flag for: ipam_email_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_threshold_settings

use_ipam_threshold_settings

Use flag for: ipam_threshold_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_trap_settings

`use_ipam_trap_settings`

Use flag for: ipam_trap_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

`use_lease_scavenge_time`

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_mgm_private

`use_mgm_private`

Use flag for: mgm_private

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

`use_nextserver`

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

`use_pxe_lease_time`

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

`use_subscribe_settings`

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_zone_associations

`use_zone_associations`

Use flag for: zone_associations

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

utilization

utilization

The network container utilization in percentage.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The utilization cannot be updated.

utilization cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

zone_associations

zone_associations

The list of zones associated with this network.

Type

A/An Zone association struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

zone_associations is associated with the field use_zone_associations (see use flag).

Function Calls

next_available_network

This function will retrieve the next available network in the network container.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

cidr (Unsigned integer.) The CIDR of the requested network(s). This is a required parameter.

exclude (String array.) An array of networks you want to exclude from the results.

num (Unsigned integer.) The number of networks you are requesting.

Output fields

networks (String array.) The requested network(s).

resize

This function will resize the current network container.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

auto_create_reversezone (Bool.) Determines whether or not to automatically create reverse-mapping zones.

prefix (Unsigned integer.). This parameter is mandatory. The netmask of the network after resizing.

reason (String.) The reason for resizing the network.

send_rir_request (Bool.) Determines if it is required to send a request to update RIR registration.

Output fields

None

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

remove_subnets

`remove_subnets`

Remove subnets delete option. Determines whether all child objects should be removed alongside with the network container or child objects should be assigned to another parental container. By default child objects are deleted with the network container.

Type

Bool.

Notes

remove_subnets is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
authority	Bool	N	N	N	N/A
auto_create_reversezone	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
delete_reason	String	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_engine_type	String	N	Y	N	=
discovery_member	String	N	N	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
endpoint_sources	[obj]	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
federated_realms	[struct]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A
ipam_email_addresses	[String]	N	N	N	N/A
ipam_threshold_settings	struct	N	N	N	N/A
ipam_trap_settings	struct	N	N	N	N/A
last_rir_registration_update_sent	Timestamp	N	Y	N	N/A
last_rir_registration_update_status	String	N	Y	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	Y	N	Y	= ~
network_container	String	N	Y	N	=

network_view	String	N	N	Y	=
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
rir	String	N	Y	N	=
rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
subscribe_settings	struct	N	N	N	N/A
unmanaged	Bool	N	N	N	=
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_authority	Bool	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_update_fixed_addresses	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ignore_id	Bool	N	N	N	N/A
use_ipam_email_addresses	Bool	N	N	N	N/A
use_ipam_threshold_settings	Bool	N	N	N	N/A
use_ipam_trap_settings	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_mgm_private	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_zone_associations	Bool	N	N	N	N/A
utilization	Unsigned int	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
zone_associations	[struct]	N	N	N	N/A

Delete Arguments List

Argument	Type
remove_subnets	Bool

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infoblox

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  - options
  - pxe_lease_time
  - range_templates
  - recycle_leases
  - rir
  - rir_organization
  - rir_registration_action

networktemplate : DHCP Network template object.

The network template used to create networks in a quick and consistent way. Networks created from a network template inherit all the properties defined in the network template, except for the comment and netmask that can be defined in the network.

Object Reference

References to networktemplate are object references. The *name* part of a network template object reference has the following components:

- Name of the network template

Example (using _ref or UUID):

```
# Using _ref networktemplate/5ldHdvcmskMTEuMC4:testnt

# Using UUID networktemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	
netmask	See the field description for more information

allow_any_netmask

`allow_any_netmask`

This flag controls whether the template allows any netmask. You must specify a netmask when creating a network using this template. If you set this parameter to false, you must specify the “netmask” field for the network template object.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

authority

`authority`

Authority for the DHCP network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

authority is associated with the field use_authority (see use flag).

auto_create_reversezone

`auto_create_reversezone`

This flag controls whether reverse zones are automatically created when the network is added.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

bootfile

`bootfile`

The boot server IPv4 Address or name in FQDN format for the network. You can specify the name and/or IP address of the boot server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the network. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cloud_api_compatible

`cloud_api_compatible`

This flag controls whether this template can be used to create network objects in a cloud-computing deployment.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

comment

Comment for the network; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

ddns_domainname

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

ddns_generate_hostname

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether the DHCP server is allowed to update DNS, regardless of the DHCP client requests. Note that changes for this field take effect only if ddns_use_option81 is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of a DHCP network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_update_fixed_addresses

ddns_update_fixed_addresses

By default, the DHCP server does not update DNS when it allocates a fixed address to a client. You can configure the DHCP server to update the A and PTR records of a client with a fixed address. When this feature is enabled and the DHCP server adds A and PTR records for a fixed address, the DHCP server never discards the records.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_update_fixed_addresses is associated with the field use_ddns_update_fixed_addresses (see use flag).

ddns_use_option81

ddns_use_option81

The support for DHCP Option 81 at the network level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

delegated_member

delegated_member

Reference the Cloud Platform Appliance to which authority of the object should be delegated when the object is created using the template.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

If set to True, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

email_list

`email_list`

The e-mail lists to which the appliance sends DHCP threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp_thresholds

`enable_dhcp_thresholds`

Determines if DHCP thresholds are enabled for the network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_email_warnings

`enable_email_warnings`

Determines if DHCP threshold warnings are sent through email.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

`enable_snmp_warnings`

Determines if DHCP threshold warnings are send through SNMP.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fixed_address_templates

`fixed_address_templates`

The list of fixed address templates assigned to this network template object. When you create a network based on a network template object that contains fixed address templates, the fixed addresses are created based on the associated fixed address templates.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

high_water_mark

`high_water_mark`

The percentage of DHCP network usage threshold above which network usage is not expected and may warrant your attention. When the high watermark is reached, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

`high_water_mark_reset`

The percentage of DHCP network usage below which the corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ipam_email_addresses

`ipam_email_addresses`

The e-mail lists to which the appliance sends IPAM threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipam_email_addresses is associated with the field use_ipam_email_addresses (see use flag).

ipam_threshold_settings

`ipam_threshold_settings`

The IPAM Threshold settings for this network template.

Type

A/An IPAM Threshold Settings struct.

Create

The default value is:

```
{'reset_value': 85, 'trigger_value': 95}
```

Search

The field is not available for search.

Notes

ipam_threshold_settings is associated with the field use_ipam_threshold_settings (see use flag).

ipam_trap_settings

`ipam_trap_settings`

The IPAM Trap settings for this network template.

Type

A/An IPAM Trap Settings struct.

Create

The default value is:

```
{'enable_email_warnings': False, 'enable_snmp_warnings': True}
```

Search

The field is not available for search.

Notes

ipam_trap_settings is associated with the field use_ipam_trap_settings (see use flag).

lease_scavenge_time

`lease_scavenge_time`

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted. To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this network template.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

`low_water_mark`

The percentage of DHCP network usage below which the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

low_water_mark_reset

The percentage of DHCP network usage threshold below which network usage is not expected and may warrant your attention. When the low watermark is crossed, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

members

members

A list of members or Microsoft (r) servers that serve DHCP for this network.

> All members in the array must be of the same type. The struct type must be indicated in each element, by setting the "_struct" member to the struct type.

Type

One of the following: Grid member serving DHCP struct, MS DHCP server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

name

The name of this network template.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

netmask

`netmask`

The netmask of the network in CIDR format.

Type

Unsigned integer.

Create

Field netmask is required if allow_any_netmask is False.

Search

The field is not available for search.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

pxe_lease_time

The PXE lease time value of a DHCP Network object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

range_templates

range_templates

The list of IP address range templates assigned to this network template object. When you create a network based on a network template object that contains range templates, the IP address ranges are created based on the associated IP address range templates.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

recycle_leases

recycle_leases

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

rir

rir

The registry (RIR) that allocated the network address space.

Type

String.

Valid values are:

- NONE
- RIPE

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir cannot be updated.

rir cannot be written.

rir_organization

`rir_organization`

The RIR organization associated with the network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

rir_registration_action

`rir_registration_action`

The RIR registration action.

Type

String.

Valid values are:
- CREATE
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

rir_registration_status

`rir_registration_status`

The registration status of the network in RIR.

Type

String.

Valid values are:

- NOT_REGISTERED
- REGISTERED

Create

The default value is *NOT_REGISTERED*.

Search

The field is not available for search.

send_rir_request

`send_rir_request`

Determines whether to send the RIR registration request.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_authority

`use_authority`

Use flag for: authority

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

`use_ddns_ttl`

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_update_fixed_addresses

`use_ddns_update_fixed_addresses`

Use flag for: ddns_update_fixed_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

use_ddns_use_option81

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

use_deny_bootp

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

use_email_list

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

use_enable_ddns

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

`use_enable_dhcp_thresholds`

Use flag for: enable_dhcp_thresholds

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

`use_ignore_dhcp_option_list_request`

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_email_addresses

`use_ipam_email_addresses`

Use flag for: ipam_email_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_threshold_settings

use_ipam_threshold_settings

Use flag for: ipam_threshold_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipam_trap_settings

use_ipam_trap_settings

Use flag for: ipam_trap_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

use_lease_scavenge_time

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

'~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allow_any_netmask	Bool	N	N	N	N/A
authority	Bool	N	N	N	N/A
auto_create_reversezone	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cloud_api_compatible	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
delegated_member	struct	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
fixed_address_templates	[String]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ipam_email_addresses	[String]	N	N	N	N/A
ipam_threshold_settings	struct	N	N	N	N/A
ipam_trap_settings	struct	N	N	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A

members	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
netmask	Unsigned int	Y*	N	N	N/A
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
range_templates	[String]	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
rir	String	N	Y	N	=
rir_organization	String	N	N	N	=
rir_registration_action	String	N	N	N	N/A
rir_registration_status	String	N	N	N	N/A
send_rir_request	Bool	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_authority	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_update_fixed_addresses	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ipam_email_addresses	Bool	N	N	N	N/A
use_ipam_threshold_settings	Bool	N	N	N	N/A
use_ipam_trap_settings	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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networkuser : Network User object.
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- Search-only Fields List

Previous topic

networktemplate : DHCP Network template object.

Next topic

networkview : DHCP NetworkView object.

networkuser : Network User object.

The DHCP Network User object provides information about Active Directory users such as user session for a specific IP address, domain, login and logout timestamps.

Object Reference

References to networkuser are object references.

The *name* part of a Network User reference has the following components:

- Name of Network User
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref
networkuser/ZG5zLm5ldHdvcmtfdmlldyQxMTk:NetworkUser1/external

# Using UUID
networkuser/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, domainname, name, network_view, user_status, uuid**.

The following fields are required to create this object:

Field	Notes
address	
domainname	
first_seen_time	
guid	
logon_id	
name	
network_view	

address

address

The IPv4 Address or IPv6 Address of the Network User.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

address_object

address_object

The reference of the IPAM IPv4Address or IPv6Address object describing the address of the Network User.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The address_object cannot be updated.

address_object cannot be written.

data_source

data_source

The Network User data source.

Type

String.

Search

The field is not available for search.

Notes

The data_source cannot be updated.

data_source cannot be written.

data_source_ip

`data_source_ip`

The Network User data source IPv4 Address or IPv6 Address or FQDN address.

Type

String.

Search

The field is not available for search.

Notes

The data_source_ip cannot be updated.

data_source_ip cannot be written.

domainname

`domainname`

The domain name of the Network User.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The domainname is part of the base object.

first_seen_time

`first_seen_time`

The first seen timestamp of the Network User.

Type

Timestamp.

Create

The field is required on creation.

Search

The field is not available for search.

guid

`guid`

The group identifier of the Network User.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

last_seen_time

`last_seen_time`

The last seen timestamp of the Network User.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is not available for search.

last_updated_time

`last_updated_time`

The last updated timestamp of the Network User.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is not available for search.

logon_id

`logon_id`

The logon identifier of the Network User.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

logout_time

`logout_time`

The logout timestamp of the Network User.

Type

Timestamp.

Create

The default value is *empty*.

Search

The field is not available for search.

name

`name`

The name of the Network User.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network

`network`

The reference to the network to which the Network User belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The name of the network view in which this Network User resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

user_status

`user_status`

The status of the Network User.

Type

String.

Valid values are:

- ACTIVE
- LOGOUT
- TIMEOUT

Search

The field is available for search via

- '=' (exact equality)

Notes

The user_status is part of the base object.

The user_status cannot be updated.

user_status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

parent

`parent`

The reference to the parent object to which the Network User belongs.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

parent is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	Y	N	Y	: = ~
address_object	String	N	Y	N	N/A
data_source	String	N	Y	N	N/A
data_source_ip	String	N	Y	N	N/A
domainname	String	Y	N	Y	: = ~
first_seen_time	Timestamp	Y	N	N	N/A
guid	String	Y	N	N	: = ~

last_seen_time	Timestamp	N	N	N	N/A
last_updated_time	Timestamp	N	N	N	N/A
logon_id	String	Y	N	N	: = ~
logout_time	Timestamp	N	N	N	N/A
name	String	Y	N	Y	: = ~
network	String	N	Y	N	N/A
network_view	String	Y	N	Y	=
user_status	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
parent	String	=

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- Fields List

Previous topic

networkuser : Network User object.

Next topic

notification:rest:endpoint : The notification RESTful endpoint object.

networkview : DHCP NetworkView object.

A network view is a single routing domain with its own networks and shared networks. A network view can contain both IPv4 and IPv6 networks. All networks must belong to a network view.

Object Reference

References to networkview are object references. The *name* part of a network view object reference has the following components:

- Name of network view
- Displays ‘true’ for the default network view, ‘false’ otherwise

Example (using _ref or UUID):

```
# Using _ref
networkview/ZG5zLm5ldHdvcmtfdmlldyQxMTk:networkview1/true

# Using UUID
networkview/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

In addition the object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, is_default, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

associated_dns_views

associated_dns_views

The list of DNS views associated with this network view.

Type

String array.

Search

The field is not available for search.

Notes

The associated_dns_views cannot be updated.

associated_dns_views cannot be written.

associated_members

associated_members

The list of members associated with a network view.

Type

A/An Network View Associated Members structure struct array.

Search

The field is not available for search.

Notes

The associated_members cannot be updated.

associated_members cannot be written.

cloud_info

cloud_info

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is:

```
{'authority_type': 'NONE', 'delegated_scope': 'NONE',
'owned_by_adaptor': False}
```

Search

The field is not available for search.

comment

`comment`

Comment for the network view; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_dns_view

`ddns_dns_view`

DNS views that will receive the updates if you enable the appliance to send updates to Grid members.

Type

String.

Create

The default value is *The default DNS view for this network view*.

Search

The field is not available for search.

ddns_zone_primaries

`ddns_zone_primaries`

An array of Ddns Zone Primary structs that lists the information of primary zone to which DDNS updates should be sent.

Type

A/An Ddns Zone Primary struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

federated_realms

`federated_realms`

This field contains the federated realms associated to this network view

Type

A/An Federated Realms struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

internal_forward_zones

`internal_forward_zones`

The list of linked authoritative DNS zones.

Type

A/An zone_auth object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

is_default

`is_default`

The NIOS appliance provides one default network view. You can rename the default view and change its settings, but you cannot delete it. There must always be at least one network view in the appliance.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_default is part of the base object.

The is_default cannot be updated.

is_default cannot be written.

mgm_private

mgm_private

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_ad_user_data

ms_ad_user_data

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

name

Name of the network view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

remote_forward_zones

`remote_forward_zones`

The list of forward-mapping zones to which the DHCP server sends the updates.

Type

A/An Remote DDNS Zone structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

remote_reverse_zones

`remote_reverse_zones`

The list of reverse-mapping zones to which the DHCP server sends the updates.

Type

A/An Remote DDNS Zone structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
associated_dns_views	[String]	N	Y	N	N/A
associated_members	[struct]	N	Y	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_dns_view	String	N	N	N	N/A
ddns_zone_primaries	[struct]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
federated_realms	[struct]	N	N	N	N/A
internal_forward_zones	[obj]	N	N	N	N/A
is_default	Bool	N	Y	Y	=
mgm_private	Bool	N	N	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y	N	Y	: = ~
remote_forward_zones	[struct]	N	N	N	N/A
remote_reverse_zones	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Previous topic

networkview : DHCP NetworkView object.

Next topic

notification:rest:template : The notification REST template object.

notification:rest:endpoint : The notification RESTful endpoint object.

The notification REST endpoint object represents settings of particular REST API endpoint.

Object Reference

References to notification:rest:endpoint are object references.

The *name* part of the notification:rest:endpoint object reference has the following components:

- The name of an endpoint.

Example (using _ref or UUID):

```
# Using _ref
notification:rest:endpoint/b25lLmVuZHBvaW50JDMzOQ:wintermute

# Using UUID
notification:rest:endpoint/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, outbound_member_type, uri, uuid**.

The following fields are required to create this object:

Field	Notes
name	
outbound_member_type	
uri	

client_certificate_subject

`client_certificate_subject`

The client certificate subject of a notification REST endpoint.

Type

String.

Search

The field is not available for search.

Notes

The client_certificate_subject cannot be updated.

client_certificate_subject cannot be written.

client_certificate_token

`client_certificate_token`

The token returned by the uploadinit function call in object fileop for a notification REST endpoint client certificate.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

client_certificate_token is not readable.

client_certificate_valid_from

`client_certificate_valid_from`

The timestamp when client certificate for a notification REST endpoint was created.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_from cannot be updated.

client_certificate_valid_from cannot be written.

client_certificate_valid_to

`client_certificate_valid_to`

The timestamp when client certificate for a notification REST endpoint expires.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_to cannot be updated.

client_certificate_valid_to cannot be written.

comment

`comment`

The comment of a notification REST endpoint.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

log_level

`log_level`

The log level for a notification REST endpoint.

Type

String.

Valid values are:

- DEBUG
- ERROR
- INFO
- WARNING

Create

The default value is *WARNING*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of a notification REST endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

outbound_member_type

`outbound_member_type`

The outbound member which will generate an event.

Type

String.

Valid values are:

- GM
- MEMBER

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The outbound_member_type is part of the base object.

outbound_members

`outbound_members`

The list of members for outbound events.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

password

password

The password of the user that can log into a notification REST endpoint.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

password is not readable.

server_cert_validation

server_cert_validation

The server certificate validation type.

Type

String.

Valid values are:

- CA_CERT
- CA_CERT_NO_HOSTNAME
- NO_VALIDATION

Create

The default value is *CA_CERT*.

Search

The field is not available for search.

sync_disabled

sync_disabled

Determines if the sync process is disabled for a notification REST endpoint.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

template_instance

`template_instance`

The notification REST template instance. The parameters of REST API endpoint template instance are prohibited to change.

Type

A/An Notification REST template instance struct.

Create

The default value is *empty*.

Search

The field is not available for search.

timeout

`timeout`

The timeout of session management (in seconds).

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

uri

`uri`

The URI of a notification REST endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uri is part of the base object.

username

`username`

The username of the user that can log into a notification REST endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_identifier

`vendor_identifier`

The vendor identifier.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

wapi_user_name

`wapi_user_name`

The user name for WAPI integration.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

wapi_user_password

`wapi_user_password`

The user password for WAPI integration.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

wapi_user_password is not readable.

Function Calls

clear_outbound_worker_log

Use this function to clear the outbound worker log for the endpoint.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

error_message (String.) The error message.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status of clearing procedure.

test_connection

Test connectivity to the REST API endpoint.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

error_message (String.) The test connectivity failed error message.

overall_status (String. Valid values are: “FAILED”, “SUCCESS”) The overall status of connectivity test.

Fields List

Field	Type	Req	R/O	Base	Search
client_certificate_subject	String	N	Y	N	N/A
client_certificate_token	String	N	N	N	N/A
client_certificate_valid_from	Timestamp	N	Y	N	N/A
client_certificate_valid_to	Timestamp	N	Y	N	N/A
comment	String	N	N	N	N/A

extattrs	Extattr	N	N	N	ext
log_level	String	N	N	N	=
name	String	Y	N	Y	: = ~
outbound_member_type	String	Y	N	Y	=
outbound_members	[String]	N	N	N	N/A
password	String	N	N	N	N/A
server_cert_validation	String	N	N	N	N/A
sync_disabled	Bool	N	N	N	N/A
template_instance	struct	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uri	String	Y	N	Y	: = ~
username	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vendor_identifier	String	N	N	N	: = ~
wapi_user_name	String	N	N	N	N/A
wapi_user_password	String	N	N	N	N/A

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Table of Contents

notification:rest:template : The notification REST template object.
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- Fields List

Previous topic

notification:rest:endpoint : The notification RESTful endpoint object.

Next topic

notification:rule : Notification rule object.

notification:rest:template : The notification REST template object.

The notification REST template object represents settings of particular REST API template.

Object Reference

References to notification:rest:template are object references.

The *name* part of the notification:rest:template object reference has the following components:

- The name of a template.

Example (using _ref or UUID):

```
# Using _ref notification:rest:template/b25lLnRlbXBsYXRlX3Jlc3RhcGkkc2V0dmVjdG9y:setvector

# Using UUID notification:rest:template/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **content, name, uuid**.

action_name

`action_name`

The action name.

Type

String.

Search

The field is not available for search.

Notes

The action_name cannot be updated.

action_name cannot be written.

added_on

added_on

The time stamp when a template was added.

Type

Timestamp.

Search

The field is not available for search.

Notes

The added_on cannot be updated.

added_on cannot be written.

comment

comment

The comment for this REST API template.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

content

content

The JSON formatted content of a template. The data passed by content creates parameters for a template.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The content is part of the base object.

event_type

`event_type`

The event type.

Type

Enum values array.

Valid values are:

- ANALYTICS_DNS_TUNNEL
- DB_CHANGE_DHCP_FIXED_ADDRESS_IPV4
- DB_CHANGE_DHCP_FIXED_ADDRESS_IPV6
- DB_CHANGE_DHCP_NETWORK_IPV4
- DB_CHANGE_DHCP_NETWORK_IPV6
- DB_CHANGE_DHCP_RANGE_IPV4
- DB_CHANGE_DHCP_RANGE_IPV6
- DB_CHANGE_DNS_DISCOVERY_DATA
- DB_CHANGE_DNS_HOST_ADDRESS_IPV4
- DB_CHANGE_DNS_HOST_ADDRESS_IPV6
- DB_CHANGE_DNS_RECORD
- DB_CHANGE_DNS_ZONE
- DHCP_LEASE
- DNS_RPZ
- DXL_EVENT_SUBSCRIBER
- SCHEDULE
- SECURITY_ADP
- SESSION

Search

The field is not available for search.

Notes

The event_type cannot be updated.

event_type cannot be written.

name

`name`

The name of a notification REST template.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

outbound_type

`outbound_type`

The outbound type for the template.

Type

String.

Valid values are:

- DXL
- REST
- SYSLOG

Search

The field is available for search via

- '=' (exact equality)

Notes

The outbound_type cannot be updated.

outbound_type cannot be written.

parameters

`parameters`

The notification REST template parameters.

Type

A/An Notification REST template parameter struct array.

Search

The field is not available for search.

Notes

The parameters cannot be updated.

parameters cannot be written.

template_type

`template_type`

The template type.

Type

String.

Valid values are:

- REST_ENDPOINT
- REST_EVENT

Search

The field is not available for search.

Notes

The template_type cannot be updated.

template_type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_identifier

`vendor_identifier`

The vendor identifier.

Type

String.

Search

The field is not available for search.

Notes

The vendor_identifier cannot be updated.

vendor_identifier cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
action_name	String	N	Y	N	N/A
added_on	Timestamp	N	Y	N	N/A
comment	String	N	N	N	N/A
content	String	N	N	Y	N/A
event_type	[Enum]	N	Y	N	N/A
name	String	N	N	Y	: = ~
outbound_type	String	N	Y	N	=
parameters	[struct]	N	Y	N	N/A
template_type	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
vendor_identifier	String	N	Y	N	N/A

object.

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notification:rule : Notification rule object.
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  - enable_event_deduplication_log
  - event_deduplication_fields
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  - event_priority
  - event_type
  - expression_list
  - name
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Previous topic

notification:rest:template : The notification REST template object.

Next topic

nsgroup : DNS name server group object.

notification:rule : Notification rule object.

Notification rule specifies the server to which this rule is applicable, certain conditions (i.e. triggers), and the action to be taken when the rule is hit. It also specifies where this rule engine is configured to be run.

Object Reference

References to notification:rule are object references.

The *name* part of a notification rule reference has the following components:

- The name of the notification rule

Example (using _ref or UUID):

```
# Using _ref notification:rule/ZG5zLm5ldHdvcmtfdmlldyQxMTk:rule1

# Using UUID notification:rule/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **event_type, name, notification_action, notification_target, uuid**.

The following fields are required to create this object:

Field	Notes
event_type	
expression_list	
name	
notification_action	
notification_target	

all_members

`all_members`

Determines whether the notification rule is applied on all members or not. When this is set to False, the notification rule is applied only on

selected_members.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

comment

`comment`

The notification rule descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines whether a notification rule is disabled or not. When this is set to False, the notification rule is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_event_deduplication

`enable_event_deduplication`

Determines whether the notification rule for event deduplication is enabled.

Note that to enable event deduplication, you must set at least one deduplication field.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_event_deduplication_log

`enable_event_deduplication_log`

Determines whether the notification rule for the event deduplication syslog is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

event_deduplication_fields

`event_deduplication_fields`

The list of fields that must be used in the notification rule for event deduplication.

Type

Enum values array.

Valid values are:

- DISCOVERER
- DUID
- DXL_TOPIC
- IP_ADDRESS
- MAC_ADDRESS
- NETWORK
- NETWORK_VIEW
- OPERATION_TYPE
- QUERY_FQDN
- QUERY_NAME
- QUERY_TYPE
- RPZ_POLICY
- RPZ_TYPE
- RULE_ACTION

- RULE_CATEGORY
- RULE_SEVERITY
- RULE_SID
- SOURCE_IP
- SOURCE_PORT

Create

The default value is *empty*.

Search

The field is not available for search.

event_deduplication_lookback_period

`event_deduplication_lookback_period`

The lookback period for the notification rule for event deduplication.

Type

Unsigned integer.

Create

The default value is *600*.

Search

The field is not available for search.

event_priority

`event_priority`

Event priority.

Type

String.

Create

The default value is *NORMAL*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

event_type

`event_type`

The notification rule event type.

Type

String.

Valid values are:

- ANALYTICS_DNS_TUNNEL
- DB_CHANGE_DHCP_FIXED_ADDRESS_IPV4
- DB_CHANGE_DHCP_FIXED_ADDRESS_IPV6
- DB_CHANGE_DHCP_NETWORK_IPV4
- DB_CHANGE_DHCP_NETWORK_IPV6
- DB_CHANGE_DHCP_RANGE_IPV4
- DB_CHANGE_DHCP_RANGE_IPV6
- DB_CHANGE_DNS_DISCOVERY_DATA
- DB_CHANGE_DNS_HOST_ADDRESS_IPV4
- DB_CHANGE_DNS_HOST_ADDRESS_IPV6
- DB_CHANGE_DNS_RECORD
- DB_CHANGE_DNS_ZONE
- DHCP_LEASES
- DNS_RPZ
- DXL_EVENT_SUBSCRIBER
- IPAM
- SCHEDULE
- SECURITY_ADP

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The event_type is part of the base object.

expression_list

`expression_list`

The notification rule expression list.

Type

A/An Notification rule expression operand struct array.

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The notification rule name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

notification_action

`notification_action`

The notification rule action is applied if expression list evaluates to True.

Type

String.

Valid values are:

- CISCOISE_PUBLISH
- CISCOISE_QUARANTINE
- RESTAPI_TEMPLATE_INSTANCE

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The notification_action is part of the base object.

notification_target

`notification_target`

The notification target.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The notification_target is part of the base object.

publish_settings

`publish_settings`

The publish settings.

Type

A/An Cisco ISE publish settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

publish_settings is associated with the field use_publish_settings (see use flag).

scheduled_event

`scheduled_event`

Schedule setting that must be specified if event_type is SCHEDULE.

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

Search

The field is not available for search.

selected_members

`selected_members`

The list of the members on which the notification rule is applied.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

template_instance

`template_instance`

The notification REST template instance.

Type

A/An Notification REST template instance struct.

Create

The default value is *empty*.

Search

The field is not available for search.

use_publish_settings

`use_publish_settings`

Use flag for: publish_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

trigger_outbound

Test notification rules by user created event.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

event_text (String.). This parameter is mandatory. The event to trigger notification rule in a JSON text string.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
all_members	Bool	N	N	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
enable_event_deduplication	Bool	N	N	N	N/A
enable_event_deduplication_log	Bool	N	N	N	N/A
event_deduplication_fields	[Enum]	N	N	N	N/A
event_deduplication_lookback_period	Unsigned int	N	N	N	N/A
event_priority	String	N	N	N	: = ~
event_type	String	Y	N	Y	=
expression_list	[struct]	Y	N	N	N/A
name	String	Y	N	Y	: = ~
notification_action	String	Y	N	Y	=
notification_target	String	Y	N	Y	=
publish_settings	struct	N	N	N	N/A

scheduled_event	struct	N	N	N	N/A
selected_members	[String]	N	N	N	N/A
template_instance	struct	N	N	N	N/A
use_publish_settings	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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nsgroup : DNS name server group object.
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- Fields List

Previous topic

notification:rule : Notification rule object.

Next topic

nsgroup:delegation : NS group delegation object.

nsgroup : DNS name server group object.

A name server group is a collection of one or more primary DNS servers and one or more secondary DNS servers. Grouping a commonly used set of primary and secondary DNS servers together simplifies zone creation, allowing you to specify a single name server group instead of specifying multiple name servers individually.

NOTE: When creating the DNS name server group, it is mandatory to specify at least one primary server (can be either the Grid primary or an External primary server).

Object Reference

References to nsgroup are object references.

The *name* part of the name server group object reference has the following components:

- Name of the name server group

Example (using _ref or UUID):

```
# Using _ref nsgroup/ZG5zLmJpbmRfY25h:nsgroup1

# Using UUID nsgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

Comment for the name server group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_primaries

`external_primaries`

The list of external primary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

external_secondaries

`external_secondaries`

The list of external secondary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

grid_primary

`grid_primary`

The grid primary servers for this group.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

grid_secondaries

`grid_secondaries`

The list with Grid members that are secondary servers for this group.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

is_grid_default

`is_grid_default`

Determines if this name server group is the Grid default.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

is_multimaster

`is_multimaster`

Determines if the “multiple DNS primaries” feature is enabled for the group.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The is_multimaster cannot be updated.

name

`name`

The name of this name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

use_external_primary

`use_external_primary`

This flag controls whether the group is using an external primary. Note that modification of this field requires passing values for “grid_secondaries” and “external_primaries”.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
external_primaries	[struct]	N	N	N	N/A
external_secondaries	[struct]	N	N	N	N/A
grid_primary	[struct]	N	N	N	N/A
grid_secondaries	[struct]	N	N	N	N/A
is_grid_default	Bool	N	N	N	N/A
is_multimaster	Bool	N	N	N	N/A
name	String	Y	N	Y	: = ~
use_external_primary	Bool	N	N	N	N/A

uuid	String	N	Y	Y	: = ~

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nsgroup:delegation : NS group delegation object.
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  - delegate_to
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  - uuid
- Fields List

Previous topic

nsgroup : DNS name server group object.

Next topic

nsgroup:forwardingmember : Forwarding Member Name Server Group object.

nsgroup:delegation : NS group delegation object.

The NS group delegation object provides delegation servers configuration for delegated zones. When you configure a name server group, you can now create a set of external name servers as a delegation name server group and assign it to delegated zones. Specifying a single delegation name server group instead of configuring multiple name servers individually for each delegated zones can significantly reduce configuration efforts.

Object Reference

References to nsgroup:delegation are object references.

The *name* part of the nsgroup:delegation object reference has the following components:

- Name of the delegated NS group.

Example (using _ref or UUID):

```
# Using _ref
nsgroup:delegation/ZG5zLm5zX2dyb3VwJHRlc3Ruc2dlcw:testnsges

# Using UUID
nsgroup:delegation/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **delegate_to, name, uuid**.

The following fields are required to create this object:

Field	Notes
delegate_to	
name	

comment

`comment`

The comment for the delegated NS group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

delegate_to

`delegate_to`

The list of delegated servers for the delegated NS group.

Type

A/An External Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The delegate_to is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name of the delegated NS group.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
delegate_to	[struct]	Y	N	Y	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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nsgroup:forwardingmember : Forwarding Member Name Server Group object.
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- Restrictions
- Fields
  - comment
  - extattrs
  - forwarding_servers
  - name
  - uuid
- Fields List

Previous topic

nsgroup:delegation : NS group delegation object.

Next topic

nsgroup:forwardstubserver : Forward Stub Server Name Server Group object.

nsgroup:forwardingmember : Forwarding Member Name Server Group object.

The Forwarding Member Name Server Group provides forwarding servers configuration for forward zones.

Object Reference

References to nsgroup:forwardingmember are object references.

The *name* part of the Forwarding Member Name Server Group object reference has the following components:

- Name of the Forwarding Member Name Server Group

Example (using _ref or UUID):

```
# Using _ref
nsgroup:forwardingmember/ZG5zLmJpbmRfY25h:nsgroup1

# Using UUID
nsgroup:forwardingmember/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **forwarding_servers, name, uuid**.

The following fields are required to create this object:

Field	Notes
forwarding_servers	
name	

comment

`comment`

Comment for the Forwarding Member Name Server Group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forwarding_servers

`forwarding_servers`

The list of forwarding member servers.

Type

A/An Forwarding Member Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The forwarding_servers is part of the base object.

name

`name`

The name of the Forwarding Member Name Server Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
forwarding_servers	[struct]	Y	N	Y	N/A
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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nsgroup:forwardstubserver : Forward Stub Server Name Server Group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - extattrs
  - external_servers
  - name
  - uuid
- Fields List

Previous topic

nsgroup:forwardingmember : Forwarding Member Name Server Group object.

Next topic

nsgroup:stubmember : Stub Member Name Server Group object.

nsgroup:forwardstubserver : Forward Stub Server Name Server Group object.

The Forward Stub Server Name Server Group allows configuring external servers for Forward Zone and Stub Zone.

Object Reference

References to nsgroup:forwardstubserver are object references.

The *name* part of the Forward Stub Server Name Server Group object reference has the following components:

- Name of the Forward Stub Server Name Server Group

Example (using _ref or UUID):

```
# Using _ref
nsgroup:forwardstubserver/ZG5zLmJpbmRfY25h:nsgroup1

# Using UUID
nsgroup:forwardstubserver/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **external_servers, name, uuid**.

The following fields are required to create this object:

Field	Notes
external_servers	
name	

comment

`comment`

Comment for the Forward Stub Server Name Server Group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_servers

`external_servers`

The list of external servers.

Type

A/An External Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The external_servers is part of the base object.

name

`name`

The name of this Forward Stub Server Name Server Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
external_servers	[struct]	Y	N	Y	N/A
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

nsgroup:stubmember : Stub Member Name Server Group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - extattrs
  - name
  - stub_members
  - uuid
- Fields List

Previous topic

nsgroup:forwardstubserver : Forward Stub Server Name Server Group object.

Next topic

orderedranges : Ordered DHCP ranges object.

nsgroup:stubmember : Stub Member Name Server Group object.

The Stub Member Name Server Group provides stub servers configuration for stub zones.

Object Reference

References to nsgroup:stubmember are object references.

The *name* part of the Stub Member Name Server Group object reference has the following components:

- Name of the Stub Member Name Server Group

Example (using _ref or UUID):

```
# Using _ref
nsgroup:stubmember/ZG5zLmJpbmRfY25h:nsgroup1

# Using UUID
nsgroup:stubmember/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

Comment for the Stub Member Name Server Group; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

name

The name of the Stub Member Name Server Group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

stub_members

stub_members

The Grid member servers of this stub zone.

Note that the lead/stealth/grid_replicate/ preferred_primaries/override_preferred_primaries fields of the struct will be ignored when set in this field.

Type

A/An Member Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
stub_members	[struct]	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

orderedranges : Ordered DHCP ranges object.
- Object Reference
- Restrictions
- Fields
  - network
  - ranges
- Fields List

Previous topic

nsgroup:stubmember : Stub Member Name Server Group object.

Next topic

orderedresponsepolicyzones : Ordered Response Policy Zones object.

orderedranges : Ordered DHCP ranges object.

An ordered DHCP ranges object contains an ordered list of DHCP range objects that belong to a network.

Note that DHCP range object that have server association type set to 'NONE' are excluded from ordered DHCP ranges object.

Object Reference

References to orderedranges are object references. The *name* part of a ordered ranges object reference has the following components:

- Address of the network that contains ranges
- CIDR of the network that contains ranges
- Name of the network view

Example: orderedranges/5ldHdvcmskMTEuMC4:10.0.0.0/8/external

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **network, ranges**.

network

network

The reference to the network that contains ranges.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network is part of the base object.

The network cannot be updated.

network cannot be written.

ranges

`ranges`

The ordered list of references to ranges.

Type

An array of the following objects: range, ipv6range.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The ranges is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
network	String	N	Y	Y	=
ranges	obj	N	N	Y	N/A

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Table of Contents

orderedresponsepolicyzones : Ordered Response Policy Zones object.
- Object Reference
- Restrictions
- Fields
  - rp_zones
  - uuid
  - view
- Fields List

Previous topic

orderedranges : Ordered DHCP ranges object.

Next topic

outbound:cloudclient : OutBoundCloudClient object.

orderedresponsepolicyzones : Ordered Response Policy Zones object.

An ordered list of Response Policy Zones in a DNS view. Server will reject zones that are disabled or zones without primary name server assigned.

Object Reference

References to orderedresponsepolicyzones are object references.

The *name* part of the ordered response policy zones object reference has the following components:

- Name of the view object

Example (using _ref or UUID):

```
# Using _ref
orderedresponsepolicyzones/ZG5zLm5ldHdvcmtfdmlldyQxMTk:viewname

# Using UUID
orderedresponsepolicyzones/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid, view**.

rp_zones

`rp_zones`

An ordered list of Response Policy Zone names.

Type

String array.

Create

The default value is *undefined*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The DNS View name.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
rp_zones	[String]	N	N	N	N/A

uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=

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Table of Contents

outbound:cloudclient : OutBoundCloudClient object.
- Object Reference
- Restrictions
- Fields
  - enable
  - grid_member
  - interval
  - outbound_cloud_client_events
  - uuid
- Fields List

Previous topic

orderedresponsepolicyzones : Ordered Response Policy Zones object.

Next topic

parentalcontrol:avp : The parental control AVP object.

outbound:cloudclient : OutBoundCloudClient object.

You can use the outbound Cloud Client object to configure the detection and authentication of domains in the Cloud, and then apply them to on-premises DNS firewall RPZ zones within a configurable time frame.

Object Reference

References to outbound:cloudclient are object references.

The *name* part of the outbound:cloudclient object reference has the following components:

- The 'cloudclient' string

Example:

```
# Using _ref outbound:cloudclient/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:cloudclient

# Using UUID outbound:cloudclient/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **enable, interval, uuid**.

The following fields are required to create this object:

Field	Notes
grid_member	

enable

`enable`

Determines whether the OutBound Cloud Client is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable is part of the base object.

grid_member

`grid_member`

The Grid member where our outbound is running.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

interval

`interval`

The time interval (in seconds) for requesting newly detected domains by the Infoblox Outbound Cloud Client and applying them to the list of configured RPZs.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

The interval is part of the base object.

outbound_cloud_client_events

`outbound_cloud_client_events`

List of event types to request

Type

A/An Outbound cloudclient event type struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
enable	Bool	N	N	Y	N/A
grid_member	String	Y	N	N	=
interval	Unsigned int	N	N	Y	N/A
outbound_cloud_client_events	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

parentalcontrol:avp : The parental control AVP object.
- Object Reference
- Restrictions
- Fields
  - comment
  - domain_types
  - is_restricted
  - name
  - type
  - user_defined
  - uuid
  - value_type
  - vendor_id
  - vendor_type
- Fields List

Previous topic

outbound:cloudclient : OutBoundCloudClient object.

Next topic

parentalcontrol:blockingpolicy : Parental control blocking policy object.

parentalcontrol:avp : The parental control AVP object.

The accounting attribute value pair object is used to extract accounting information from accounting protocols logs.

Object Reference

References to parentalcontrol:avp are object references.

The *name* part of the parentalcontrol:avp object reference has the following components:

- The name of the AVP.

Example (using _ref or UUID):

```
# Using _ref parentalcontrol:avp/b25lLmltY19hY2NvdW50aW5nX2F2cCR0ZXRyYW5vZGU:tetranode

# Using UUID parentalcontrol:avp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, type, uuid, value_type**.

The following fields are required to create this object:

Field	Notes
name	
type	
value_type	
vendor_id	You must specify vendor_id when type is 26.
vendor_type	You must specify vendor_type when type is 26.

comment

`comment`

The comment for the AVP.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

domain_types

`domain_types`

The list of domains applicable to AVP.

Type

Enum values array.

Valid values are:

- ANCILLARY
- IP_SPACE_DIS
- NAS_CONTEXT
- SUBS_ID

Create

The default value is *empty*.

Search

The field is not available for search.

is_restricted

`is_restricted`

Determines if AVP is restricted to domains.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

name

`name`

The name of AVP.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

type

`type`

The type of AVP as per RFC 2865/2866.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The type is part of the base object.

user_defined

`user_defined`

Determines if AVP was defined by user.

Type

Bool.

Search

The field is not available for search.

Notes

The user_defined cannot be updated.

user_defined cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

value_type

`value_type`

The type of value.

Type

String.

Valid values are:

- BYTE
- DATE
- INTEGER
- INTEGER64

- IPADDR
- IPV6ADDR
- IPV6IFID
- IPV6PREFIX
- OCTETS
- SHORT
- STRING

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The value_type is part of the base object.

vendor_id

`vendor_id`

The vendor ID as per RFC 2865/2866.

Type

Unsigned integer.

Create

You must specify vendor_id when type is 26.

Search

The field is available for search via

- '=' (exact equality)

vendor_type

`vendor_type`

The vendor type as per RFC 2865/2866.

Type

Unsigned integer.

Create

You must specify vendor_type when type is 26.

Search

The field is available for search via

- '=' (exact equality)

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
domain_types	[Enum]	N	N	N	N/A
is_restricted	Bool	N	N	N	N/A
name	String	Y	N	Y	: = ~
type	Unsigned int	Y	N	Y	N/A
user_defined	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
value_type	String	Y	N	Y	N/A
vendor_id	Unsigned int	Y*	N	N	=
vendor_type	Unsigned int	Y*	N	N	=

* Required in some cases, see detailed field description above.

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Table of Contents

parentalcontrol:blockingpolicy : Parental control blocking policy object.
- Object Reference
- Restrictions
- Fields
  - name
  - uuid
  - value
- Fields List

Previous topic

parentalcontrol:avp : The parental control AVP object.

Next topic

parentalcontrol:subscriber : The parental control subscriber object.

parentalcontrol:blockingpolicy : Parental control blocking policy object.

This object represents a set of parental control properties for blocking policy.

Object Reference

References to parentalcontrol:blockingpolicy are object references.

The *name* part of the parentalcontrol:blockingpolicy object reference has the following components:

- The name of the blocking policy.

Example (using _ref or UUID):

Using _ref "parentalcontrol:blockingpolicy/b25lLmltY19ibG9ja2luZ19wb2xpY3kkQmxvY2tpbmc:Blocking"

Using UUID "parentalcontrol:blockingpolicy/123e4567e89b12d3a456426614174000"

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, value**.

The following fields are required to create this object:

Field	Notes
name	
value	

name

name

The name of the blocking policy.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

value

`value`

The 32 bit hex value of the blocking policy.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The value is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~
value	String	Y	N	Y	=

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Table of Contents

parentalcontrol:subscriber : The parental control subscriber object.
- Object Reference
- Restrictions
- Fields
  - alt_subscriber_id
  - alt_subscriber_id_regexp
  - alt_subscriber_id_subexpression
  - ancillaries
  - cat_acctname
  - cat_password
  - cat_update_frequency
  - category_url
  - enable_mgmt_only_nas
  - enable_parental_control
  - interim_accounting_interval
  - ip_anchors
  - ip_space_disc_regexp
  - ip_space_disc_subexpression
  - ip_space_discriminator
  - local_id
  - local_id_regexp
  - local_id_subexpression
  - log_guest_lookups
  - nas_context_info
  - pc_zone_name
  - proxy_password
  - proxy_url
  - proxy_username
  - subscriber_id
  - subscriber_id_regexp
  - subscriber_id_subexpression
  - uuid
  - zvelo_update_failure_in_days
- Fields List

Previous topic

parentalcontrol:blockingpolicy : Parental control blocking policy object.

Next topic

parentalcontrol:subscriberrecord : Parental control subscriber record object.

parentalcontrol:subscriber : The parental control subscriber object.

The parental control subscriber properties contains user defined RADIUS subscriber information which will be used by DNS/RPZ for reporting and logging violations.

Object Reference

References to parentalcontrol:subscriber are object references.

The *name* part of the parentalcontrol:subscriber object reference has the following components:

- The name of AVP used as a subscriber.

Example:

```
# Using _ref parentalcontrol:subscriber/b25lLmltY19zdWJzY3JpYmVyX3NlY3VyZV9wcm9wZXJ0aWVzJDA:IMSI

# Using UUID parentalcontrol:subscriber/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **alt_subscriber_id, local_id, subscriber_id, uuid**.

alt_subscriber_id

`alt_subscriber_id`

The name of AVP to be used as an alternate subscriber ID for fixed lines.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The alt_subscriber_id is part of the base object.

alt_subscriber_id_regexp

alt_subscriber_id_regexp

A character string to control aspects of rewriting of the fields.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

alt_subscriber_id_subexpression

alt_subscriber_id_subexpression

The subexpression indicates which subexpression to extract. If zero, then the text matching the entire regular expression is extracted. If non-zero, then the regex must contain at least that many sub-expression groups. It takes values from 0 to 8.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

ancillaries

ancillaries

The list of ordered AVP Ancillary Fields.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

cat_acctname

cat_acctname

Category content account name using the categorization service.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

cat_password

`cat_password`

Category content account password to access the categorization service.

Type

String.

Create

The default value is *CSg@vBz!rx7A*.

Search

The field is not available for search.

cat_update_frequency

`cat_update_frequency`

Category content updates every number of hours.

Type

Unsigned integer.

Create

The default value is *24*.

Search

The field is not available for search.

category_url

`category_url`

Category content vendor url to download category data from and upload feedback to, configure for parental control.

Type

String.

Create

The default value is *https://dl.zvelo.com/*.

Search

The field is not available for search.

enable_mgmt_only_nas

`enable_mgmt_only_nas`

Determines if NAS RADIUS traffic is accepted over MGMT only.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_parental_control

`enable_parental_control`

Determines if parental control is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

interim_accounting_interval

`interim_accounting_interval`

The time for collector to be fully populated.

Valid values are from 1 to 65535.

Type

Unsigned integer.

Create

The default value is *720*.

Search

The field is not available for search.

ip_anchors

`ip_anchors`

The ordered list of IP Anchors AVPs. The list content cannot be changed, but the order of elements.

Type

String array.

Create

The default value is *['Framed-IPv6-Address', 'Framed-IPv6-Prefix', 'Delegated-IPv6-Prefix']*.

Search

The field is not available for search.

ip_space_disc_regexp

`ip_space_disc_regexp`

A character string to control aspects of rewriting of the fields.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

ip_space_disc_subexpression

`ip_space_disc_subexpression`

The subexpression indicates which subexpression to extract. If zero, then the text matching the entire regular expression is extracted. If non-zero, then the regex must contain at least that many sub-expression groups. It takes values from 0 to 8.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

ip_space_discriminator

`ip_space_discriminator`

The name of AVP to be used as IP address discriminator.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

local_id

`local_id`

The name of AVP to be used as local ID.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The local_id is part of the base object.

local_id_regexp

`local_id_regexp`

A character string to control aspects of rewriting of the fields.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

local_id_subexpression

`local_id_subexpression`

The subexpression indicates which subexpression to extract. If zero, then the text matching the entire regular expression is extracted. If non-zero, then the regex must contain at least that many sub-expression groups. It takes values from 0 to 8.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

log_guest_lookups

`log_guest_lookups`

CEF log all guest lookups, will produce two logs in
case of a violation.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

nas_context_info

`nas_context_info`

NAS contextual information AVP.

Type

String.

Create

The default value is *NAS-PORT*.

Search

The field is not available for search.

pc_zone_name

pc_zone_name

The SOA to store parental control records.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

proxy_password

proxy_password

Proxy server password used for authentication.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

proxy_url

proxy_url

Proxy url to download category data from and upload feedback to, configure for parental control. The default value ‘None’ is no longer valid as it match url regex pattern “^http|https://”. The new default value does not get saved in database, but rather used for comparison with object created in unit test cases.

Type

String.

Create

The default value is *http://dummyproxy.com:4444*.

Search

The field is not available for search.

proxy_username

proxy_username

Proxy server username used for authentication.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

subscriber_id

`subscriber_id`

The name of AVP to be used as a subscriber.

Type

String.

Create

The default value is *Calling-Station-Id*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The subscriber_id is part of the base object.

subscriber_id_regexp

`subscriber_id_regexp`

A character string to control aspects of rewriting of the fields.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

subscriber_id_subexpression

`subscriber_id_subexpression`

The subexpression indicates which subexpression to extract. If zero, then the text matching the entire regular expression is extracted. If non-zero, then the regex must contain at least that many sub-expression groups. It takes values from 0 to 8.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

zvelo_update_failure_in_days

`zvelo_update_failure_in_days`

Number of days since zvelo DB failed to update.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The zvelo_update_failure_in_days cannot be updated.

zvelo_update_failure_in_days cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
alt_subscriber_id	String	N	N	Y	=
alt_subscriber_id_regexp	String	N	N	N	N/A
alt_subscriber_id_subexpression	Unsigned int	N	N	N	N/A
ancillaries	[String]	N	N	N	N/A
cat_acctname	String	N	N	N	N/A
cat_password	String	N	N	N	N/A
cat_update_frequency	Unsigned int	N	N	N	N/A
category_url	String	N	N	N	N/A
enable_mgmt_only_nas	Bool	N	N	N	N/A
enable_parental_control	Bool	N	N	N	N/A
interim_accounting_interval	Unsigned int	N	N	N	N/A
ip_anchors	[String]	N	N	N	N/A
ip_space_disc_regexp	String	N	N	N	N/A
ip_space_disc_subexpression	Unsigned int	N	N	N	N/A
ip_space_discriminator	String	N	N	N	N/A
local_id	String	N	N	Y	=
local_id_regexp	String	N	N	N	N/A
local_id_subexpression	Unsigned int	N	N	N	N/A
log_guest_lookups	Bool	N	N	N	N/A
nas_context_info	String	N	N	N	N/A
pc_zone_name	String	N	N	N	N/A
proxy_password	String	N	N	N	N/A
proxy_url	String	N	N	N	N/A
proxy_username	String	N	N	N	N/A
subscriber_id	String	N	N	Y	=

subscriber_id_regexp	String	N	N	N	N/A
subscriber_id_subexpression	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
zvelo_update_failure_in_days	Unsigned int	N	Y	N	N/A

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Next topic

parentalcontrol:subscribersite : Subscriber site parental control properties object.

parentalcontrol:subscriberrecord : Parental control subscriber record object.

This object represents a set of parental control properties for subscriber record.

Object Reference

References to parentalcontrol:subscriberrecord are object references.

The *IP/Prefix/LocalId/IPSD* part of the subscriberrecord object reference has the following components:

- IP: IP Address of the subscriberrecord.
- Prefix: Prefix length for IP Address of the subscriberrecord.
- LocalId: Local Id of the subscriberrecord.
- IPSD: IP Address Space Discriminator of the subscriberrecord.

Example:

“parentalcontrol:subscriberrecord/
MTAuMTAuMTAuMTAkMzIkYTBiMGMwZDBlMGYwJEJMUg:10.10.10.10/32/
a0b0c0d0e0f0/BLR”

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **accounting_session_id, ip_addr, ipsd, localid, prefix, site, subscriber_id**.

The following fields are required to create this object:

Field	Notes
ip_addr	
ipsd	
localid	
prefix	
site	
subscriber_id	

accounting_session_id

accounting_session_id

accounting_session_id

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The accounting_session_id is part of the base object.

alt_ip_addr

`alt_ip_addr`

alt_ip_addr

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ans0

`ans0`

ans0

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ans1

`ans1`

ans1

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ans2

`ans2`

ans2

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ans3

`ans3`

ans3

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ans4

`ans4`

ans4

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

black_list

black_list

black_list

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

bwflag

bwflag

bwflag

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

dynamic_category_policy

dynamic_category_policy

dynamic_category_policy

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

flags

flags

flags

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

ip_addr

`ip_addr`

ip_addr

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ip_addr is part of the base object.

ipsd

`ipsd`

ipsd

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ipsd is part of the base object.

localid

`localid`

localid

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The localid is part of the base object.

nas_contextual

`nas_contextual`

nas_contextual

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

op_code

`op_code`

op_code

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

parental_control_policy

`parental_control_policy`

parental_control_policy

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

prefix

`prefix`

prefix

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The prefix is part of the base object.

proxy_all

`proxy_all`

proxy_all

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

site

`site`

site

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The site is part of the base object.

subscriber_id

`subscriber_id`

subscriber_id

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The subscriber_id is part of the base object.

subscriber_secure_policy

`subscriber_secure_policy`

subscriber_secure_policy

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

unknown_category_policy

`unknown_category_policy`

unknown_category_policy

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

white_list

`white_list`

white_list

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

wpc_category_policy

`wpc_category_policy`

wpc_category_policy

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
accounting_session_id	String	N	N	Y	N/A
alt_ip_addr	String	N	N	N	N/A
ans0	String	N	N	N	N/A
ans1	String	N	N	N	N/A
ans2	String	N	N	N	N/A
ans3	String	N	N	N	N/A
ans4	String	N	N	N	N/A
black_list	String	N	N	N	N/A
bwflag	Bool	N	N	N	N/A

dynamic_category_policy	Bool	N	N	N	N/A
flags	String	N	N	N	N/A
ip_addr	String	Y	N	Y	: = ~
ipsd	String	Y	N	Y	: = ~
localid	String	Y	N	Y	: = ~
nas_contextual	String	N	N	N	N/A
op_code	String	N	N	N	N/A
parental_control_policy	String	N	N	N	N/A
prefix	Unsigned int	Y	N	Y	=
proxy_all	Bool	N	N	N	N/A
site	String	Y	N	Y	: = ~
subscriber_id	String	Y	N	Y	: = ~
subscriber_secure_policy	String	N	N	N	N/A
unknown_category_policy	Bool	N	N	N	N/A
white_list	String	N	N	N	N/A
wpc_category_policy	String	N	N	N	N/A

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Next topic

permission : Permissions object.

parentalcontrol:subscribersite : Subscriber site parental control properties object.

This object represents a set of parental control properties for subscriber site.

Object Reference

References to parentalcontrol:subscribersite are object references.

The *name* part of the parentalcontrol:subscribersite object reference has the following components:

- The name of the site.

Example (using _ref or UUID):

```
# Using _ref
parentalcontrol:subscribersite/ZG5zLm5ldHdvcmtfdmlldyQxMTk:wintermute

# Using UUID
parentalcontrol:subscribersite/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **block_size, dca_sub_bw_list, dca_sub_query_count, enable_gcp_precedence_over_allowed_list, enable_global_allow_list_rpz, enable_global_content_policy, enable_rpz_filtering_bypass, first_port, global_allow_list_rpz, name, stop_anycast, strict_nat, uuid**.

The following fields are required to create this object:

Field	Notes
name	

abss

abss

The list of ABS for the site.

Type

A/An Parental control additional blocking server(ABS) struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

api_members

`api_members`

The list of API members for the site.

Type

A/An Site member parental control settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

api_port

`api_port`

The port number for gRPC API server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The api_port cannot be updated.

api_port cannot be written.

block_size

`block_size`

The size of the Deterministic NAT block-size.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

The block_size is part of the base object.

blocking_ipv4_vip1

`blocking_ipv4_vip1`

The IPv4 Address of the blocking server.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

blocking_ipv4_vip2

`blocking_ipv4_vip2`

The IPv4 Address of the blocking server.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

blocking_ipv6_vip1

`blocking_ipv6_vip1`

The IPv6 Address of the blocking server.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

blocking_ipv6_vip2

`blocking_ipv6_vip2`

The IPv6 Address of the blocking server.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

comment

`comment`

The human readable comment for the site.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

dca_sub_bw_list

`dca_sub_bw_list`

Enable/disable the DCA subscriber B/W list support.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The dca_sub_bw_list is part of the base object.

dca_sub_query_count

`dca_sub_query_count`

Enable/disable the DCA subscriber query count.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The dca_sub_query_count is part of the base object.

enable_gcp_precedence_over_allowed_list

`enable_gcp_precedence_over_allowed_list`

Enable/disable global content filter policy over allowed list.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_gcp_precedence_over_allowed_list is part of the base object.

enable_global_allow_list_rpz

`enable_global_allow_list_rpz`

Enable/disable global allow list RPZ setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_global_allow_list_rpz is part of the base object.

enable_global_content_policy

`enable_global_content_policy`

Enable/disable global content policy setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_global_content_policy is part of the base object.

enable_rpz_filtering_bypass

`enable_rpz_filtering_bypass`

Enable/disable Subscriber Secure Policy Bypass for Allowed list.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable_rpz_filtering_bypass is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

first_port

`first_port`

The start of the first Deterministic block.

Type

Unsigned integer.

Create

The default value is *1024*.

Search

The field is not available for search.

Notes

The first_port is part of the base object.

global_allow_list_rpz

`global_allow_list_rpz`

Global allow list RPZ index. Valid values are between 0 and 63.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The global_allow_list_rpz is part of the base object.

global_content_policy_bit_numbers

`global_content_policy_bit_numbers`

Global content filter policy bit numbers in range of 0 to 127.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

maximum_subscribers

`maximum_subscribers`

The max number of subscribers for the site. It is used to configure the cache size.

Type

Unsigned integer.

Create

The default value is *1000000*.

Search

The field is not available for search.

members

`members`

The list of members for the site.

Type

A/An Site member parental control settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

msps

`msps`

The list of MSP for the site.

Type

A/An Parental control managed service provider (MSP) service struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

name

The name of the site.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

nas_gateways

nas_gateways

The list of accounting log servers.

Type

A/An NAS gateway mobile security settings struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

nas_port

nas_port

The port number to reach the collector.

Type

Unsigned integer.

Create

The default value is *1813*.

Search

The field is not available for search.

proxy_rpz_passthru

proxy_rpz_passthru

Enforce the global proxy list.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

spms

spms

The list of SPM for the site.

Type

A/An Parental control policy management service (SPM) struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

stop_anycast

stop_anycast

Stop the anycast service when the subscriber service is in the interim state.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

The stop_anycast is part of the base object.

strict_nat

`strict_nat`

Restrict subscriber cache entries to NATed clients.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

The strict_nat is part of the base object.

subscriber_collection_type

`subscriber_collection_type`

Subscriber collection type either RADIUS or API.

Type

String.

Valid values are:

- API
- RADIUS

Create

The default value is *RADIUS*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
abss	[struct]	N	N	N	N/A
api_members	[struct]	N	N	N	N/A
api_port	Unsigned int	N	Y	N	N/A
block_size	Unsigned int	N	N	Y	N/A
blocking_ipv4_vip1	String	N	N	N	= ~
blocking_ipv4_vip2	String	N	N	N	= ~
blocking_ipv6_vip1	String	N	N	N	= ~
blocking_ipv6_vip2	String	N	N	N	= ~
comment	String	N	N	N	: = ~
dca_sub_bw_list	Bool	N	N	Y	N/A
dca_sub_query_count	Bool	N	N	Y	N/A
enable_gcp_precedence_over_allowed_list	Bool	N	N	Y	N/A
enable_global_allow_list_rpz	Bool	N	N	Y	N/A
enable_global_content_policy	Bool	N	N	Y	N/A
enable_rpz_filtering_bypass	Bool	N	N	Y	N/A
extattrs	Extattr	N	N	N	ext
first_port	Unsigned int	N	N	Y	N/A
global_allow_list_rpz	Unsigned int	N	N	Y	N/A
global_content_policy_bit_numbers	String	N	N	N	: = ~
maximum_subscribers	Unsigned int	N	N	N	N/A
members	[struct]	N	N	N	N/A
msps	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
nas_gateways	[struct]	N	N	N	N/A
nas_port	Unsigned int	N	N	N	N/A
proxy_rpz_passthru	Bool	N	N	N	N/A
spms	[struct]	N	N	N	N/A
stop_anycast	Bool	N	N	Y	N/A

strict_nat	Bool	N	N	Y	N/A
subscriber_collection_type	String	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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pxgrid:endpoint : The PXGrid endpoint object.

permission : Permissions object.

Limited-access admin groups can access certain DHCP resources only if their administrative permissions are defined. By default, the appliance denies access when a limited-access admin group does not have defined permissions. You can grant admin groups read-only or read/write permission, or deny access by using this object.

Note

Only supported resource_type and object combinations are allowed. Refer to the Infoblox NIOS Administrator Guide for more information.

For example, the following resource types are not supported when creating a global permission:

- FILE_DIST_DIRECTORY
- FIXED_ADDRESS_TEMPLATE
- IPV6_NETWORK_CONTAINER
- IPV6_FIXED_ADDRESS_TEMPLATE
- IPV6_NETWORK_TEMPLATE
- IPV6_RANGE_TEMPLATE
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- MEMBER_SECURITY_PROPERTIES
- NETWORK_CONTAINER
- NETWORK_TEMPLATE
- RANGE_TEMPLATE
- RESTART_SERVICE
- SUB_GRID_NETWORK_VIEW_PARENT

Examples

To create object permission for a specific zone, send the reference in the object field: {“group”: “1”, “permission”: “READ”, “object”: “zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmF6:az/default”}

To create global permission for all IPv6 Network objects, send IPV6_NETWORK in the resource_type field: {“group”: “1”, “permission”: “READ”, “resource_type”: “IPV6_NETWORK”}

To create permission for all IPv4 DHCP ranges inside a specific network container, send the reference in the object field and RANGE in the resource_type field: {“group”: “1”, “permission”: “READ”, “object”: “networkcontainer/ZG5zLm5ldHdvcmtfY29Iui4yMC4wLzI0LzA:2.2.20.0/24/default”, “resource_type”: “RANGE”}

Object Reference

References to permission are object references. The *name* part of a permission object reference has the following components:

- Group name

Permission

Example (using _ref or UUID):

```
# Using _ref permission:cname/ZG5zLmJpbmRfY25h:group1/WRITE

# Using UUID permission:cname/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **group, permission, resource_type, role, uuid**.

The following fields are required to create this object:

Field	Notes
group	One of group or role is required.
object	At least one of object or resource_type is required.
permission	
resource_type	At least one of object or resource_type is required.
role	One of group or role is required.

group

`group`

The name of the admin group this permission applies to.

Type

String.

Create

One of group or role is required.

Search

The field is available for search via

- '=' (exact equality)

Notes

The group is part of the base object.

object

`object`

A reference to a WAPI object, which will be the object this permission applies to.

Type

String.

This field supports nested return fields as described here.

Create

At least one of object or resource_type is required.

Search

The field is available for search via

- '=' (exact equality)

permission

`permission`

The type of permission.

Type

String.

Valid values are:

- DENY
- READ
- WRITE

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The permission is part of the base object.

resource_type

`resource_type`

The type of resource this permission applies to. If 'object' is set, the permission is going to apply to child objects of the specified type, for example if 'object' was set to an authoritative zone reference and 'resource_type' was set to 'A', the permission would apply to A Resource Records within the specified zone.

Type

String.

Valid values are:

- A
- AAAA
- AAA_EXTERNAL_SERVICE
- ADD_A_RR_WITH_EMPTY_HOSTNAME
- ALIAS
- BFD_TEMPLATE
- BULKHOST
- CAA
- CA_CERTIFICATE
- CLUSTER
- CNAME
- CSV_IMPORT_TASK
- DASHBOARD_TASK
- DATACOLLECTOR_CLUSTER
- DEFINED_ACL
- DELETED_OBJS_INFO_TRACKING
- DEVICE
- DHCP_FINGERPRINT
- DHCP_LEASE_HISTORY
- DHCP_MAC_FILTER
- DNAME
- DNS64_SYNTHESIS_GROUP
- FILE_DIST_DIRECTORY
- FIREEYE_PUBLISH_ALERT
- FIXED_ADDRESS
- FIXED_ADDRESS_TEMPLATE
- GRID_AAA_PROPERTIES
- GRID_ANALYTICS_PROPERTIES
- GRID_DHCP_PROPERTIES
- GRID_DNS_PROPERTIES
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- HOST
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- IDNS_GEO_IP
- IDNS_LBDN
- IDNS_LBDN_RECORD
- IDNS_MONITOR
- IDNS_POOL
- IDNS_SERVER
- IDNS_TOPOLOGY
- IMC_AVP
- IMC_PROPERTIES
- IMC_SITE
- IPV6_DHCP_LEASE_HISTORY
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- IPV6_HOST_ADDRESS
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IPV6_NETWORK_TEMPLATE
- IPV6_RANGE
- IPV6_RANGE_TEMPLATE
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- IPV6_TEMPLATE
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- MEMBER_CLOUD
- MEMBER_DHCP_PROPERTIES
- MEMBER_DNS_PROPERTIES
- MEMBER_FILE_DIST_PROPERTIES
- MEMBER_SECURITY_PROPERTIES
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- MS_ADSITES_DOMAIN
- MS_SUPERSCOPE
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- SUPER_HOST
- SVCB
- TEMPLATE
- TENANT
- TLSA

- TXT
- Unknown
- VIEW
- VLAN_OBJECTS
- VLAN_RANGE
- VLAN_VIEW
- ZONE

Create

At least one of object or resource_type is required.

Search

The field is available for search via

- '=' (exact equality)

Notes

The resource_type is part of the base object.

role

`role`

The name of the role this permission applies to.

Type

String.

Create

One of group or role is required.

Search

The field is available for search via

- '=' (exact equality)

Notes

The role is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
group	String	Y*	N	Y	=
object	String	Y*	N	N	=
permission	String	Y	N	Y	=
resource_type	String	Y*	N	Y	=
role	String	Y*	N	Y	=
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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Previous topic

permission : Permissions object.

Next topic

radius:authservice : The RADIUS authentication service object.

pxgrid:endpoint : The PXGrid endpoint object.

The pxgrid endpoint object represents the settings of a particular PXGRID endpoint.

Object Reference

References to pxgrid:endpoint are object references.

The *name* part of the pxgrid:endpoint object reference has the following components:

- The name of an endpoint.

Example (using _ref or UUID):

```
# Using _ref
pxgrid:endpoint/b25lLmVuZHBvaW50JDMzOQ:wintermute

# Using UUID
pxgrid:endpoint/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address, disable, name, outbound_member_type, uuid**.

The following fields are required to create this object:

Field	Notes
address	
client_certificate_token	
name	
outbound_member_type	
subscribe_settings	

address

`address`

The pxgrid endpoint IPv4 Address or IPv6 Address or Fully-Qualified Domain Name (FQDN)

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The address is part of the base object.

client_certificate_subject

`client_certificate_subject`

The Cisco ISE client certificate subject.

Type

String.

Search

The field is not available for search.

Notes

The client_certificate_subject cannot be updated.

client_certificate_subject cannot be written.

client_certificate_token

`client_certificate_token`

The token returned by the uploadinit function call in object fileop for Cisco ISE client certificate.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

client_certificate_token is not readable.

client_certificate_valid_from

`client_certificate_valid_from`

The pxgrid endpoint client certificate valid from.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_from cannot be updated.

client_certificate_valid_from cannot be written.

client_certificate_valid_to

`client_certificate_valid_to`

The pxgrid endpoint client certificate valid to.

Type

Timestamp.

Search

The field is not available for search.

Notes

The client_certificate_valid_to cannot be updated.

client_certificate_valid_to cannot be written.

comment

comment

The Cisco ISE endpoint descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines whether a Cisco ISE endpoint is disabled or not. When this is set to False, the Cisco ISE endpoint is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when

updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

log_level

`log_level`

The log level for a notification pxgrid endpoint.

Type

String.

Valid values are:

- DEBUG
- ERROR
- INFO
- WARNING

Create

The default value is *WARNING*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of the pxgrid endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

'~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The pxgrid network view name.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

outbound_member_type

`outbound_member_type`

The outbound member that will generate events.

Type

String.

Valid values are:
- GM
- MEMBER

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The outbound_member_type is part of the base object.

outbound_members

outbound_members

The list of members for outbound events.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

publish_settings

publish_settings

The Cisco ISE publish settings.

Type

A/An Cisco ISE publish settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

subscribe_settings

subscribe_settings

The Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The field is required on creation.

Search

The field is not available for search.

template_instance

template_instance

The Pxgrid template instance. You cannot change the parameters of the pxgrid endpoint template instance.

Type

A/An Notification REST template instance struct.

Create

The default value is *empty*.

Search

The field is not available for search.

timeout

`timeout`

The timeout of session management (in seconds).

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_identifier

`vendor_identifier`

The vendor identifier.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

wapi_user_name

`wapi_user_name`

The user name for WAPI integration.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

wapi_user_password

`wapi_user_password`

The user password for WAPI integration.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

wapi_user_password is not readable.

Function Calls

test_connection

Use this function to test a connection to the pxgrid endpoint

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

result (String. Valid values are: “SUCCESS”, “FAILURE”) The result of connection testing to the pxgrid endpoint.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	Y	N	Y	: = ~
client_certificate_subject	String	N	Y	N	N/A
client_certificate_token	String	Y	N	N	N/A
client_certificate_valid_from	Timestamp	N	Y	N	N/A
client_certificate_valid_to	Timestamp	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	Y	N/A
extattrs	Extattr	N	N	N	ext
log_level	String	N	N	N	=
name	String	Y	N	Y	: = ~
network_view	String	N	N	N	=
outbound_member_type	String	Y	N	Y	=
outbound_members	[String]	N	N	N	N/A
publish_settings	struct	N	N	N	N/A
subscribe_settings	struct	Y	N	N	N/A
template_instance	struct	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vendor_identifier	String	N	N	N	: = ~
wapi_user_name	String	N	N	N	N/A
wapi_user_password	String	N	N	N	N/A

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pxgrid:endpoint : The PXGrid endpoint object.

Next topic

range : DHCP Range object.

radius:authservice : The RADIUS authentication service object.

RADIUS provides authentication, accounting, and authorization functions.

The NIOS appliance supports authentication using the following RADIUS servers: FreeRADIUS, Microsoft, Cisco, and Funk.

When NIOS authenticates administrators against RADIUS servers, NIOS acts similarly to a network access server (NAS), which is a RADIUS client that sends authentication and accounting requests to a RADIUS server.

To configure NIOS to use one or more RADIUS server groups to authenticate administrators, do the following: 1. Configure at least one RADIUS authentication server group (authentication service) 2. Define admin groups for the admins that are authenticated by the RADIUS servers and specify their privileges and settings 3. Add the RADIUS server groups and the admin groups that match those on RADIUS server to authentication policy.

Object Reference

References to radius:authservice are object references.

The *name* part of a RADIUS authentication service has the following components:

- The name of the RADIUS authentication service.

Example:

```
# Using _ref
radius:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:RADIUSAuth

# Using UUID
radius:authservice/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be

requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disable, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	
servers	

acct_retries

`acct_retries`

The number of times to attempt to contact an accounting RADIUS server.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

acct_timeout

`acct_timeout`

The number of seconds to wait for a response from the RADIUS server.

Type

Unsigned integer.

Create

The default value is *5000*.

Search

The field is not available for search.

auth_retries

`auth_retries`

The number of times to attempt to contact an authentication RADIUS server.

Type

Unsigned integer.

Create

The default value is *6*.

Search

The field is not available for search.

auth_timeout

`auth_timeout`

The number of seconds to wait for a response from the RADIUS server.

Type

Unsigned integer.

Create

The default value is *5000*.

Search

The field is not available for search.

cache_ttl

`cache_ttl`

The TTL of cached authentication data in seconds.

Type

Unsigned integer.

Create

The default value is *3600*.

Search

The field is not available for search.

comment

`comment`

The RADIUS descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the RADIUS authentication service is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

enable_cache

`enable_cache`

Determines whether the authentication cache is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

mode

`mode`

The way to contact the RADIUS server.

Type

String.

Valid values are:

- HUNT_GROUP
- ROUND_ROBIN

Create

The default value is *HUNT_GROUP*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The RADIUS authentication service name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

recovery_interval

`recovery_interval`

The time period to wait before retrying a server that has been

marked as down.

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

servers

`servers`

The ordered list of RADIUS authentication servers.

Type

A/An The RADIUS authentication server structure struct array.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

check_radius_server_settings

Test connectivity to the server, authentication and accounting settings.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

acct_timeout (Unsigned integer.) The accounting timeout in milliseconds. The default value is “5000”.

auth_timeout (Unsigned integer.) The authentication timeout in milliseconds. The default value is “5000”.

radius_authservice (String.) The name of the parent RADIUS authentication service.

radius_server (A/An The RADIUS authentication server structure struct.). This parameter is mandatory. The RADIUS server which will be tested. The ‘disable’ flag is ignored.

Output fields

error_message (String.) The detailed description of failure.

overall_status (String. Valid values are: “SUCCESS”, “FAILED”) The overall status of the test.

Fields List

Field	Type	Req	R/O	Base	Search
acct_retries	Unsigned int	N	N	N	N/A
acct_timeout	Unsigned int	N	N	N	N/A
auth_retries	Unsigned int	N	N	N	N/A
auth_timeout	Unsigned int	N	N	N	N/A
cache_ttl	Unsigned int	N	N	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	Y	N/A
enable_cache	Bool	N	N	N	N/A
mode	String	N	N	N	=
name	String	Y	N	Y	: = ~
recovery_interval	Unsigned int	N	N	N	N/A

servers	[struct]	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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range : DHCP Range object.

A DHCP range defines the specified range of IP addresses in a network. A DHCP range should be added for a network so the Infoblox appliance can assign IP addresses within that specified range to DHCP clients. If the client is on a network that is assigned a DHCP range, the device distributes an available IP address from that range to the DHCP client, or to a DHCP relay agent if the request came through an agent. The DHCP range should also be assigned with a device. If devices are in a grid, the particular member serving DHCP for the DHCP range must be specified. If the server is an independent device, this device must be specified as the member that serves the DHCP range.

Object Reference

References to range are object references. The *name* part of a DHCP Range object reference has the following components:

- Start address of the range
- End address of the range
- Name of the view

Example: range/ZG5zLmJpbmRfY25h:12.0.10.0/12.0.30.0/external

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, end_addr, network, network_view, start_addr, uuid**.

The following fields are required to create this object:

Field	Notes
end_addr	
start_addr	

always_update_dns

`always_update_dns`

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP clients requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

bootfile

`bootfile`

The bootfile name for the range. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the range. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Create

The default value is *empty*.

Search

The field is not available for search.

comment

`comment`

Comment for the range; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

`ddns_domainname`

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this range.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

ddns_generate_hostname

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

deny_all_clients

deny_all_clients

If True, send NAK forcing the client to take the new address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

deny_bootp

deny_bootp

If set to true, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

dhcp_utilization

dhcp_utilization

The percentage of the total DHCP utilization of the range multiplied by 1000. This is the percentage of the total number of available IP addresses belonging to the range versus the total number of all IP addresses in the range.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

dhcp_utilization_status

A string describing the utilization level of the range.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

disable

disable

Determines whether a range is disabled or not. When this is set to False, the range is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discover_now_status

`discover_now_status`

Discover now status for this range.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovery_basic_poll_settings

`discovery_basic_poll_settings`

The discovery basic poll settings for this range.

Type

A/An Basic Poll Settings struct.

Create

The default value is:

```
  { 'auto_arp_refresh_before_switch_port_polling': True,
'cli_collection': True,
'complete_ping_sweep': False,
'credential_group': 'default',
'device_profile': False,
'netbios_scanning': False,
'polling_frequency_modifier': '1',
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600,
'use_arp_data_for_discovery': False,
'use_global_polling_frequency_modifier': True}
```

Search

The field is not available for search.

Notes

discovery_basic_poll_settings is associated with the field use_discovery_basic_polling_settings (see use flag).

discovery_blackout_setting

`discovery_blackout_setting`

The discovery blackout setting for this range.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

discovery_blackout_setting is associated with the field use_blackout_setting (see use flag).

discovery_member

`discovery_member`

The member that will run discovery for this range.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

discovery_member is associated with the field use_enable_discovery (see use flag).

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the range.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

email_list

`email_list`

The e-mail lists to which the appliance sends DHCP threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a DHCP range object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp_thresholds

`enable_dhcp_thresholds`

Determines if DHCP thresholds are enabled for the range.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_discovery

`enable_discovery`

Determines whether a discovery is enabled or not for this range. When this is set to False, the discovery for this range is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_discovery is associated with the field use_enable_discovery (see use flag).

enable_email_warnings

`enable_email_warnings`

Determines if DHCP threshold warnings are sent through email.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ifmap_publishing

`enable_ifmap_publishing`

Determines if IFMAP publishing is enabled for the range.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ifmap_publishing is associated with the field use_enable_ifmap_publishing (see use flag).

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the range should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

`enable_snmp_warnings`

Determines if DHCP threshold warnings are send through SNMP.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

end_addr

`end_addr`

The IPv4 Address end address of the range.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The end_addr is part of the base object.

endpoint_sources

`endpoint_sources`

The endpoints that provides data for the DHCP Range object.

Type

A/An pxgrid:endpoint object array.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The endpoint_sources cannot be updated.

endpoint_sources cannot be written.

exclude

`exclude`

These are ranges of IP addresses that the appliance does not use to assign to clients. You can use these exclusion addresses as static IP addresses. They contain the start and end addresses of the exclusion range, and optionally, information about this exclusion range.

Type

A/An Exclusion range struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

failover_association

`failover_association`

The name of the failover association: the server in this failover association will

serve the IPv4 range in case the main server is out of service.

server_association_type must be set to ‘FAILOVER’ or ‘FAILOVER_MS’ if you want the failover association specified here to serve the range.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘=’ (exact equality)

fingerprint_filter_rules

`fingerprint_filter_rules`

This field contains the fingerprint filters for this DHCP range.

The appliance uses matching rules in these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

high_water_mark

`high_water_mark`

The percentage of DHCP range usage threshold above which range usage is not expected and may warrant your attention. When the high watermark is reached, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

high_water_mark_reset

The percentage of DHCP range usage below which the corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

ignore_dhcp_option_list_request

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ignore_id

ignore_id

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses. Valid values are “NONE”, “CLIENT”, or “MACADDR”. The default is “NONE”.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

ignore_id is associated with the field use_ignore_id (see use flag).

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

is_split_scope

`is_split_scope`

This field will be ‘true’ if this particular range is part of a split scope.

Type

Bool.

Search

The field is not available for search.

Notes

The is_split_scope cannot be updated.

is_split_scope cannot be written.

known_clients

`known_clients`

Permission for known clients. This can be ‘Allow’ or ‘Deny’. If set to ‘Deny’ known clients will be denied IP addresses.

Known clients include roaming hosts and clients with fixed addresses or DHCP host entries. Unknown clients include clients that are not roaming hosts and clients that do not have fixed addresses or DHCP host entries.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

known_clients is associated with the field use_known_clients (see use flag).

lease_scavenge_time

`lease_scavenge_time`

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted. To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied to this range.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

`low_water_mark`

The percentage of DHCP range usage below which the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

`low_water_mark_reset`

The percentage of DHCP range usage threshold below which range usage is not expected and may warrant your attention. When the low watermark is crossed, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

mac_filter_rules

`mac_filter_rules`

This field contains the MAC filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

member

`member`

The member that will provide service for this range.

server_association_type needs to be set to 'MEMBER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with Dhcp Member structure and the request should have option _method=GET.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

ms_options

`ms_options`

This field contains the Microsoft DHCP options for this range.

Type

A/An Microsoft DHCP Options struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ms_options is associated with the field use_ms_options (see use flag).

ms_server

`ms_server`

The Microsoft server that will provide service for this range.

server_association_type needs to be set to 'MS_SERVER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with MS DHCP server structure and the request should have option _method=GET.

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

nac_filter_rules

`nac_filter_rules`

This field contains the NAC filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

`name`

This field contains the name of the Microsoft scope.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

network

`network`

The network to which this range belongs, in IPv4 Address/CIDR format.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The network is part of the base object.

network_view

`network_view`

The name of the network view in which this range resides.

Type

String.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

option_filter_rules

`option_filter_rules`

This field contains the Option filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

port_control_blackout_setting

port_control_blackout_setting

The port control blackout setting for this range.

Type

A/An Blackout Setting struct.

Create

The default value is:

```
{'enable_blackout': False}
```

Search

The field is not available for search.

Notes

port_control_blackout_setting is associated with the field use_blackout_setting

(see use flag).

pxe_lease_time

pxe_lease_time

The PXE lease time value of a DHCP Range object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

recycle_leases

recycle_leases

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

relay_agent_filter_rules

relay_agent_filter_rules

This field contains the Relay Agent filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

same_port_control_discovery_blackout

`same_port_control_discovery_blackout`

If the field is set to True, the discovery blackout setting will be used for port control blackout setting.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

same_port_control_discovery_blackout is associated with the field

use_blackout_setting (see use flag).

server_association_type

`server_association_type`

The type of server that is going to serve the range.

Type

String.

Valid values are:

- FAILOVER
- MEMBER
- MS_FAILOVER
- MS_SERVER
- NONE

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

split_member

`split_member`

The Microsoft member to which the split scope is assigned. See split_scope_exclusion_percent for more information

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The split_member cannot be updated.

split_member is not readable.

split_scope_exclusion_percent

`split_scope_exclusion_percent`

This field controls the percentage used when creating a split scope.

Valid values are numbers between 1 and 99. If the value is 40, it means that

the top 40% of the exclusion will be created on the DHCP range assigned to ms_server and the lower 60% of the range will be assigned to DHCP range assigned to split_member

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The split_scope_exclusion_percent cannot be updated.

split_scope_exclusion_percent is not readable.

start_addr

`start_addr`

The IPv4 Address starting address of the range.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The start_addr is part of the base object.

static_hosts

`static_hosts`

The number of static DHCP addresses configured in the range.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

subscribe_settings

`subscribe_settings`

The DHCP Range Cisco ISE subscribe settings.

Type

A/An Cisco ISE subscribe settings struct struct.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

subscribe_settings is associated with the field use_subscribe_settings (see use flag).

template

`template`

If set on creation, the range will be created according to the values specified in the named template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

total_hosts

`total_hosts`

The total number of DHCP addresses configured in the range.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

unknown_clients

`unknown_clients`

Permission for unknown clients. This can be ‘Allow’ or ‘Deny’. If set to ‘Deny’, unknown clients will be denied IP addresses.

Known clients include roaming hosts and clients with fixed addresses or DHCP host entries. Unknown clients include clients that are not roaming hosts and clients that do not have fixed addresses or DHCP host entries.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

unknown_clients is associated with the field use_unknown_clients (see use flag).

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_blackout_setting

use_blackout_setting

Use flag for: discovery_blackout_setting , port_control_blackout_setting, same_port_control_discovery_blackout

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

use_bootfile

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

use_bootserver

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

use_ddns_domainname

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_discovery_basic_polling_settings

`use_discovery_basic_polling_settings`

Use flag for: discovery_basic_poll_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

use_email_list

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

use_enable_ddns

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

use_enable_dhcp_thresholds

Use flag for: enable_dhcp_thresholds

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_discovery

use_enable_discovery

Use flag for: discovery_member , enable_discovery

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ifmap_publishing

use_enable_ifmap_publishing

Use flag for: enable_ifmap_publishing

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_id

use_ignore_id

Use flag for: ignore_id

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_known_clients

`use_known_clients`

Use flag for: known_clients

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

`use_lease_scavenge_time`

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_options

use_ms_options

Use flag for: ms_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_subscribe_settings

`use_subscribe_settings`

Use flag for: subscribe_settings

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_unknown_clients

`use_unknown_clients`

Use flag for: unknown_clients

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

next_available_ip

This function retrieves the next available IP in the range.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of IP addresses to exclude.

num (Unsigned integer.) The number of IP addresses you are requesting.

Output fields

ips (String array.) The requested IP addresses.

Fields List

Field	Type	Req	R/O	Base	Search
always_update_dns	Bool	N	N	N	N/A
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cloud_info	struct	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
deny_all_clients	Bool	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
disable	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovery_basic_poll_settings	struct	N	N	N	N/A
discovery_blackout_setting	struct	N	N	N	N/A
discovery_member	String	N	N	N	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_discovery	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_ifmap_publishing	Bool	N	N	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
end_addr	String	Y	N	Y	= ~
endpoint_sources	[obj]	N	Y	N	N/A
exclude	[struct]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
failover_association	String	N	N	N	=
fingerprint_filter_rules	[struct]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A
is_split_scope	Bool	N	Y	N	N/A
known_clients	String	N	N	N	N/A

lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
mac_filter_rules	[struct]	N	N	N	N/A
member	struct	N	N	N	=
ms_ad_user_data	struct	N	Y	N	N/A
ms_options	[struct]	N	N	N	N/A
ms_server	struct	N	N	N	=
nac_filter_rules	[struct]	N	N	N	N/A
name	String	N	N	N	N/A
network	String	N	N	Y	= ~
network_view	String	N	N	Y	=
nextserver	String	N	N	N	N/A
option_filter_rules	[struct]	N	N	N	N/A
options	[struct]	N	N	N	N/A
port_control_blackout_setting	struct	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
relay_agent_filter_rules	[struct]	N	N	N	N/A
restart_if_needed	Bool	N	N	N	N/A
same_port_control_discovery_blackout	Bool	N	N	N	N/A
server_association_type	String	N	N	N	=
split_member	struct	N	N	N	N/A
split_scope_exclusion_percent	Unsigned int	N	N	N	N/A
start_addr	String	Y	N	Y	= ~
static_hosts	Unsigned int	N	Y	N	N/A
subscribe_settings	struct	N	N	N	N/A
template	String	N	N	N	N/A
total_hosts	Unsigned int	N	Y	N	N/A
unknown_clients	String	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_blackout_setting	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_discovery_basic_polling_settings	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_enable_discovery	Bool	N	N	N	N/A
use_enable_ifmap_publishing	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ignore_id	Bool	N	N	N	N/A

use_known_clients	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_ms_options	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_subscribe_settings	Bool	N	N	N	N/A
use_unknown_clients	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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rangetemplate : DHCP Range template object.

The range template used to create a range objects in a quick and consistent way. Range object created from a range template will inherit most properties defined in range template object so most of the range template properties are the same as the range object properties.

Object Reference

References to rangetemplate are object references. The *name* part of a DHCP Range template object reference has the following components:

- Name of the DHCP Range template

Example (using _ref or UUID):

```
# Using _ref rangetemplate/ZG5zLmJpbmRfY25h:templatename

# Using UUID rangetemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, number_of_addresses, offset, uuid**.

The following fields are required to create this object:

Field	Notes
name	
number_of_addresses	
offset	

bootfile

`bootfile`

The bootfile name for the range. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the range. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

cloud_api_compatible

`cloud_api_compatible`

This flag controls whether this template can be used to create network objects in a cloud-computing deployment.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

comment

A descriptive comment of a range template object.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_domainname

ddns_domainname

The dynamic DNS domain name the appliance uses specifically for DDNS updates for this range.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_generate_hostname

ddns_generate_hostname

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

delegated_member

`delegated_member`

The vconnector member that the object should be delegated to when created from this range template.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is not available for search.

deny_all_clients

`deny_all_clients`

If True, send NAK forcing the client to take the new address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

Determines if BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

email_list

email_list

The e-mail lists to which the appliance sends DHCP threshold alarm e-mail messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email_list is associated with the field use_email_list (see use flag).

enable_ddns

enable_ddns

Determines if the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_dhcp_thresholds

enable_dhcp_thresholds

Determines if DHCP thresholds are enabled for the range.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_dhcp_thresholds is associated with the field use_enable_dhcp_thresholds (see use flag).

enable_email_warnings

enable_email_warnings

Determines if DHCP threshold warnings are sent through email.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_pxe_lease_time

enable_pxe_lease_time

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_snmp_warnings

enable_snmp_warnings

Determines if DHCP threshold warnings are sent through SNMP.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

exclude

exclude

These are ranges of IP addresses that the appliance does not use to assign to clients. You can use these exclusion addresses as static IP addresses. They contain the start and end addresses of the exclusion range, and optionally, information about this exclusion range.

Type

A/An Exclusion range template struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

failover_association

`failover_association`

The name of the failover association: the server in this failover association will serve the IPv4 range in case the main server is out of service.

server_association_type must be set to 'FAILOVER' or 'FAILOVER_MS' if you want the failover association specified here to serve the range.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

fingerprint_filter_rules

`fingerprint_filter_rules`

This field contains the fingerprint filters for this DHCP range.

The appliance uses matching rules in these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

high_water_mark

`high_water_mark`

The percentage of DHCP range usage threshold above which range usage is not expected and may warrant your attention. When the high watermark is reached, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *95*.

Search

The field is not available for search.

high_water_mark_reset

`high_water_mark_reset`

The percentage of DHCP range usage below which the corresponding SNMP trap is reset.

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The high watermark reset value must be lower than the high watermark value.

Type

Unsigned integer.

Create

The default value is *85*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

known_clients

known_clients

Permission for known clients. If set to ‘Deny’ known clients will be denied IP addresses.

Known clients include roaming hosts and clients with fixed addresses or DHCP host entries. Unknown clients include clients that are not roaming hosts and clients that do not have fixed addresses or DHCP host entries.

Type

String.

Valid values are:

- Allow
- Deny

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

known_clients is associated with the field use_known_clients (see use flag).

lease_scavenge_time

lease_scavenge_time

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted. To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

logic_filter_rules

This field contains the logic filters to be applied on this range.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

low_water_mark

low_water_mark

The percentage of DHCP range usage below which the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

low_water_mark_reset

low_water_mark_reset

The percentage of DHCP range usage threshold below which range usage is not expected and may warrant your attention. When the low watermark is crossed, the Infoblox appliance generates a syslog message and sends a warning (if enabled).

A number that specifies the percentage of allocated addresses. The range is from 1 to 100. The low watermark reset value must be higher than the low watermark value.

Type

Unsigned integer.

Create

The default value is *10*.

Search

The field is not available for search.

mac_filter_rules

`mac_filter_rules`

This field contains the MAC filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

member

`member`

The member that will provide service for this range.

server_association_type needs to be set to 'MEMBER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with Dhcp Member structure and the request should have option _method=GET.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

ms_options

ms_options

The Microsoft DHCP options for this range.

Type

A/An Microsoft DHCP Options struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

ms_options is associated with the field use_ms_options (see use flag).

ms_server

ms_server

The Microsoft server that will provide service for this range.

server_association_type needs to be set to 'MS_SERVER' if you want the server specified here to serve the range. For searching by this field you should use a HTTP method that contains a body (POST or PUT) with MS DHCP server structure and the request should have option _method=GET.

Type

A/An MS DHCP server struct.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

nac_filter_rules

nac_filter_rules

This field contains the NAC filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

name

The name of a range template object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

nextserver

nextserver

The name in FQDN and/or IPv4 Address format of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

number_of_addresses

`number_of_addresses`

The number of addresses for this range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The number_of_addresses is part of the base object.

offset

`offset`

The start address offset for this range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The offset is part of the base object.

option_filter_rules

`option_filter_rules`

This field contains the Option filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

pxe_lease_time

The PXE lease time value for a range object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

recycle_leases

`recycle_leases`

If the field is set to True, the leases are kept in the Recycle Bin until one week after expiration. Otherwise, the leases are permanently deleted.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

recycle_leases is associated with the field use_recycle_leases (see use flag).

relay_agent_filter_rules

`relay_agent_filter_rules`

This field contains the Relay Agent filters to be applied to this range.

The appliance uses the matching rules of these filters to select the address range from which it assigns a lease.

Type

A/An Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

server_association_type

`server_association_type`

The type of server that is going to serve the range.

Type

String.

Valid values are:

- FAILOVER
- MEMBER
- MS_FAILOVER
- MS_SERVER
- NONE

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

unknown_clients

`unknown_clients`

Permission for unknown clients. If set to 'Deny' unknown clients will be denied IP addresses.

Known clients include roaming hosts and clients with fixed addresses or DHCP host entries. Unknown clients include clients that are not roaming hosts and clients that do not have fixed addresses or DHCP host entries.

Type

String.

Valid values are:

- Allow
- Deny

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

unknown_clients is associated with the field use_unknown_clients (see use flag).

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_email_list

`use_email_list`

Use flag for: email_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

use_enable_ddns

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_dhcp_thresholds

use_enable_dhcp_thresholds

Use flag for: enable_dhcp_thresholds

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

use_ignore_dhcp_option_list_request

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_known_clients

use_known_clients

Use flag for: known_clients

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

`use_lease_scavenge_time`

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ms_options

`use_ms_options`

Use flag for: ms_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

`use_nextserver`

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

`use_pxe_lease_time`

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recycle_leases

`use_recycle_leases`

Use flag for: recycle_leases

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_unknown_clients

`use_unknown_clients`

Use flag for: unknown_clients

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
cloud_api_compatible	Bool	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_domainname	String	N	N	N	N/A
ddns_generate_hostname	Bool	N	N	N	N/A
delegated_member	struct	N	N	N	N/A
deny_all_clients	Bool	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
email_list	[String]	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_dhcp_thresholds	Bool	N	N	N	N/A
enable_email_warnings	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
enable_snmp_warnings	Bool	N	N	N	N/A
exclude	[struct]	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
failover_association	String	N	N	N	=
fingerprint_filter_rules	[struct]	N	N	N	N/A
high_water_mark	Unsigned int	N	N	N	N/A
high_water_mark_reset	Unsigned int	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
known_clients	String	N	N	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
low_water_mark	Unsigned int	N	N	N	N/A
low_water_mark_reset	Unsigned int	N	N	N	N/A
mac_filter_rules	[struct]	N	N	N	N/A

member	struct	N	N	N	=
ms_options	[struct]	N	N	N	N/A
ms_server	struct	N	N	N	=
nac_filter_rules	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
nextserver	String	N	N	N	N/A
number_of_addresses	Unsigned int	Y	N	Y	N/A
offset	Unsigned int	Y	N	Y	N/A
option_filter_rules	[struct]	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
recycle_leases	Bool	N	N	N	N/A
relay_agent_filter_rules	[struct]	N	N	N	N/A
server_association_type	String	N	N	N	=
unknown_clients	String	N	N	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_email_list	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_enable_dhcp_thresholds	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_known_clients	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_ms_options	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_recycle_leases	Bool	N	N	N	N/A
use_unknown_clients	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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record:a : DNS A record object.

An A (address) record maps a domain name to an IPv4 address. To define a specific name-to-address mapping, add an A record to a previously defined authoritative forward-mapping zone.

On DELETE request, the boolean argument remove_associated_ptr indicates whether the associated PTR records should be removed while deleting the specified A record. The PTR record will be removed only if “Enable PTR record removal for A/AAAA records” is enabled in Grid DNS properties.

Object Reference

References to record:a are object references. The *name* part of an A record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:a/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

# Using UUID record:a/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addr	
name	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An ‘Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

disable

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discovered_data

discovered_data

The discovered data for this A record.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

dns_name

dns_name

The name for an A record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv4addr

`ipv4addr`

The IPv4 Address of the record.

Type

String.

The field also supports automatic selection of the next available address in the specified network or range. You can specify the network or range in the following ways:

Using a network or range WAPI reference:

- func:nextavailableip:<reference>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using a range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default
- func:nextavailableip:10.0.0.0/8
- func:nextavailableip:10.0.0.0/8,external
- func:nextavailableip:10.0.0.3-10.0.0.10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in

_parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

Name for A record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

shared_record_group

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

ttl

ttl

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: “TCP: 21,22,23 UDP: 137,139”. Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual

switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

remove_associated_ptr

`remove_associated_ptr`

Delete option that indicates whether the associated PTR records should be removed while deleting the specified A record.

Type

Bool.

Notes

remove_associated_ptr is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A

discovered_data	struct	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
ipv4addr	String	Y	N	Y	= ~
last_queried	Timestamp	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~

discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~

discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

Delete Arguments List

Argument	Type
remove_associated_ptr	Bool

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record:aaaa : DNS AAAA record object.

An AAAA (address) record maps a domain name to an IPv6 address. To define a specific name-to-address mapping, add an AAAA record to a previously defined authoritative forward-mapping zone.

On DELETE request, the boolean argument remove_associated_ptr indicates whether the associated PTR records should be removed while deleting the specified AAAA record. The PTR record will be removed only if “Enable PTR record removal for A/AAAA records” is enabled in Grid DNS properties.

Object Reference

References to record:aaaa are object references. The *name* part of an AAAA record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:aaaa/ZG5zLjo6MQ:aaaa.wtest.foo.bar/external

# Using UUID record:aaaa/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv6addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv6addr	
name	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An ‘Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discovered_data

`discovered_data`

The discovered data for this AAAA record.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

dns_name

`dns_name`

The name for an AAAA record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6addr

`ipv6addr`

The IPv6 Address of the record.

Type

String.

The field also supports automatic selection of the next available address in the specified IPv6 network or range. You can specify the IPv6 network or range in the following ways:

Using an IPv6 network or range WAPI reference:

- func:nextavailableip:<reference>

Using an IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using an IPv6 range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:abcd%3A%3A/64/default
- func:nextavailableip:abcd::/64
- func:nextavailableip:abcd::/64,external
- func:nextavailableip:abcd::20-abcd::30

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object ipv6network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object ipv6range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

Name for the AAAA record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.duid

`discovered_data.`**`duid`**

For IPv6 address only. The DHCP unique identifier of the discovered host. This is an

optional field, and data might not be included.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.duid is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)

‘=’ (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)

‘=’ (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

remove_associated_ptr

`remove_associated_ptr`

Delete option that indicates whether the associated PTR records should be removed while deleting the specified A record.

Type

Bool.

Notes

remove_associated_ptr is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
discovered_data	struct	N	Y	N	N/A
dns_name	String	N	Y	N	N/A

extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
ipv6addr	String	Y	N	Y	= ~
last_queried	Timestamp	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.duid	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~

discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~

discovered_data.vswitch_type	String	=

Delete Arguments List

Argument	Type
remove_associated_ptr	Bool

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Previous topic

record:aaaa : DNS AAAA record object.

Next topic

record:caa : DNS CAA record object.

record:alias : DNS Alias record object.

Alias resource record allows you to create typed aliases for standard DNS resource records which are resolved dynamically by an authoritative server. Unlike CNAME Alias can be created in the zone apex.

Object Reference

References to record:alias are object references. The *name* part of a DNS Alias object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:alias/ZG5zLmJpbmRfY25h:some.name.com/myview

# Using UUID
record:alias/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, target_name, target_type, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
target_name	
target_type	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

creator

`creator`

The record creator.

Type

String.

Valid values are:

- STATIC

Create

The default value is *STATIC*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for an Alias record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_target_name

`dns_target_name`

Target name in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_target_name cannot be updated.

dns_target_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name for an Alias record in FQDN format. This value can be in unicode format. Regular expression search is not supported for unicode values.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

target_name

`target_name`

Target name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The target_name is part of the base object.

target_type

`target_type`

Target type.

Type

String.

Valid values are:

- A
- AAAA
- CAA
- MX
- NAPTR
- PTR
- SPF
- SRV
- TXT

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The target_type is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creator	String	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
dns_target_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
target_name	String	Y	N	Y	: = ~
target_type	String	Y	N	Y	=
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Previous topic

record:alias : DNS Alias record object.

Next topic

record:cname : DNS CNAME record object.

record:caa : DNS CAA record object.

The Certification Authority Authorization (CAA) DNS resource record (RR) is used to specify which certificate authorities (CAs) are allowed to issue certificates for a domain. For further details see RFC-6844.

Object Reference

References to record:caa are object references. The *name* part of a CAA record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:caa/ZG5zLmJpbmRfY2FN1ZXIxLm9yZw:caa_example0.com/default

# Using UUID record:caa/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ca_flag	
ca_tag	
ca_value	
name	

ca_flag

`ca_flag`

Flag of CAA record.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

ca_tag

`ca_tag`

Tag of CAA record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ca_value

`ca_value`

Value of CAA record

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator. Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name of the CAA record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The CAA record name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

ttl

`ttl`

The Time to Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
ca_flag	Unsigned int	Y	N	N	=
ca_tag	String	Y	N	N	: = ~
ca_value	String	Y	N	N	: = ~
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:cname : DNS CNAME record object.
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  - comment
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  - ddns_principal
  - ddns_protected
  - disable
  - dns_canonical
  - dns_name
  - extattrs
  - forbid_reclamation
  - last_queried
  - name
  - reclaimable
  - rr_precondition_instructions
  - shared_record_group
  - ttl
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  - uuid
  - view
  - zone
- Fields List

Previous topic

record:caa : DNS CAA record object.

Next topic

record:dhcid : DNS DHCID record object.

record:cname : DNS CNAME record object.

A CNAME record maps an alias to a canonical name. You can use CNAME records in both forward- and IPv4 reverse-mapping zones to serve two different purposes. (At this time, you cannot use CNAME records with IPv6 reverse-mapping zones.)

In a forward-mapping zone, a CNAME record maps an alias to a canonical (or official) name. CNAME records are often more convenient to use than canonical names because they can be shorter or more descriptive.

Object Reference

References to record:cname are object references. The *name* part of a DNS CNAME object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:cname/ZG5zLmJpbmRfY25h:some.name.com/myview

# Using UUID
record:cname/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An ‘Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

canonical

`canonical`

Canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The canonical is part of the base object.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_canonical

`dns_canonical`

Canonical name in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_canonical cannot be updated.

dns_canonical cannot be written.

dns_name

`dns_name`

The name for the CNAME record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name for a CNAME record in FQDN format. This value can be in unicode format. Regular expression search is not supported for unicode values.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

rr_precondition_instructions

`rr_precondition_instructions`

List of pre-condition instructions for CNAME record creation.

Type

A/An Structure for DNS RR pre-condition instructions struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
canonical	String	Y	N	Y	: = ~
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_canonical	String	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
rr_precondition_instructions	[struct]	N	N	N	N/A
shared_record_group	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:dhcid : DNS DHCID record object.
- Object Reference
- Restrictions
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  - dns_name
  - name
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- Fields List

Previous topic

record:cname : DNS CNAME record object.

Next topic

record:dname : DNS DNAME record object.

record:dhcid : DNS DHCID record object.

The DHCID DNS resource record (RR) is used to associate the DNS domain names with the DHCP clients using the domain names.

Object Reference

References to record:dhcid are object references. The *name* part of an DHCID record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:dhcid/ZG5zLmJpbm:h1.wtest.foo.bar/external

# Using UUID
record:dhcid/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dhcid

`dhcid`

The Base64 encoded DHCP client information.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The dhcid cannot be updated.

dhcid cannot be written.

dns_name

`dns_name`

The name for the DHCID record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

name

`name`

The name of the DHCID record in FQDN format.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dhcid	String	N	Y	N	: = ~
dns_name	String	N	Y	N	N/A
name	String	N	Y	Y	: = ~
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:dname : DNS DNAME record object.
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  - disable
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  - dns_target
  - extattrs
  - forbid_reclamation
  - last_queried
  - name
  - reclaimable
  - shared_record_group
  - target
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:dhcid : DNS DHCID record object.

Next topic

record:dnskey : DNS DNSKEY record object.

record:dname : DNS DNAME record object.

A DNAME record maps all the names in one domain to those in another domain, essentially substituting one domain name suffix with the other.

Object Reference

References to record:dname are object references. The *name* part of a DNS DNAME object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:dname/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:dname/123e4567e89b12d3a456426614174000
```

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, target, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
target	

cloud_info

`cloud_info`

The structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

The comment for the record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

Name of a DNS DNAME record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_target

`dns_target`

The target domain name of the DNS DNAME record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_target cannot be updated.

dns_target cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if reclamation is allowed for the record.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the DNS DNAME record in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

target

`target`

The target domain name of the DNS DNAME record in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The target is part of the base object.

ttl

`ttl`

Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, that the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides, for example “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

`zone`

The name of the zone in which the record resides. For example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
dns_target	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
target	String	Y	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:dnskey : DNS DNSKEY record object.
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  - public_key
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:dname : DNS DNAME record object.

Next topic

record:ds : DNS DS record object.

record:dnskey : DNS DNSKEY record object.

The DNSKEY resource record stores public keys for the DNSSEC authentication process. The DNSKEY records are generated automatically when the corresponding authoritative zone is signed. The DNSKEY resource record object is read-only.

The DNSKEY resource record is defined in RFC 4034.

Object Reference

References to record:dnskey are object references. The *name* part of a DNS DNSKEY object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:dnskey/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:dnskey/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

algorithm

`algorithm`

The public key encryption algorithm of a DNSKEY Record object.

Type

String.

Valid values are:

- DSA
- ECDSAP256SHA256
- ECDSAP384SHA384
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512

Search

The field is available for search via

- '=' (exact equality)

Notes

The algorithm cannot be updated.

algorithm cannot be written.

comment

`comment`

The comment for the record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

`dns_name`

Name of a DNSKEY record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

flags

`flags`

The flags field is a 16-bit unsigned integer. Currently, only two bits of this value are used: the least significant bit and bit 7. The other bits are reserved for future use and must be zero. If bit 7 is set to 1, the key is a DNS zone key. Otherwise, the key is not a zone key and cannot be used to verify zone data. The least significant bit indicates “secure entry point property”. If it is not zero, the key is a key signing key (KSK type). Otherwise, the key type is ZSK.

Type

Integer.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The flags cannot be updated.

flags cannot be written.

key_tag

`key_tag`

The key tag identifying the public key of a DNSKEY Record object.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The key_tag cannot be updated.

key_tag cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the DNSKEY record in FQDN format. It has to be the same as the zone, where the record resides.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

public_key

`public_key`

The public key. The format of the returned value depends on the key algorithm.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The public_key cannot be updated.

public_key cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
algorithm	String	N	Y	N	=
comment	String	N	Y	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
flags	Integer	N	Y	N	=
key_tag	Unsigned int	N	Y	N	< = >
last_queried	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
public_key	String	N	Y	N	= ~
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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- Fields List

Previous topic

record:dnskey : DNS DNSKEY record object.

Next topic

record:dtclbdn : DTC LBDN object.

record:ds : DNS DS record object.

The DS key record is a part of the DNS security extension records. The DS RR contains a hash of a child zone's KSK and can be used as a trust anchor in some security-aware resolvers and to create a secure delegation point for a signed subzone in DNS servers. It is used to authorize the DNSKEY records of the child zone and thus to establish the DNSSEC chain of trust.

The DS resource record is defined in RFC 4034.

The DS resource records are automatically generated upon the signing of the child zone of an authoritative zone residing on the appliance.

Object Reference

References to record:ds are object references. The *name* part of a DNS DS object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:ds/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:ds/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

algorithm

`algorithm`

The algorithm of the DNSKEY RR to which this DS RR refers. It uses the same algorithm values and types as the corresponding DNSKEY RR.

Type

String.

Valid values are:

- DSA
- ECDSAP256SHA256
- ECDSAP384SHA384
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512

Search

The field is available for search via

- '=' (exact equality)

Notes

The algorithm cannot be updated.

algorithm cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

The comment for the record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment cannot be updated.

comment cannot be written.

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

Creator of the record.

Type

String.

Valid values are:

- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

digest

`digest`

The digest of the DNSKEY resource record that is stored in a DS Record object.

Type

String.

Search

The field is not available for search.

Notes

The digest cannot be updated.

digest cannot be written.

digest_type

`digest_type`

The algorithm used to construct the digest.

Type

String.

Valid values are:

- SHA1
- SHA256

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The digest_type cannot be updated.

digest_type cannot be written.

dns_name

`dns_name`

The name for the DS record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

key_tag

`key_tag`

The key tag value that is used to determine which key to use to verify signatures.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The key_tag cannot be updated.

key_tag cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the DNS DS record in FQDN format.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the

record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
algorithm	String	N	Y	N	=
cloud_info	struct	N	Y	N	N/A
comment	String	N	Y	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
digest	String	N	Y	N	N/A
digest_type	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
key_tag	Unsigned int	N	Y	N	< = >
last_queried	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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record:ds : DNS DS record object.

Next topic

record:host : DNS Host record object.

record:dtclbdn : DTC LBDN object.

Load Balanced Domain Name (LBDN) is a Load balanced domain name record type, which is served by Infoblox Name Servers. LBDN is a qualified domain name associated with a specific service such as ftp.abc.com or www.abc.com. A LBDN record must be associated to a zone for which Infoblox is authoritative for. User may assign multiple “Resource Pools” to a LBDN record. User may also assign one or more DNS Distribution (Load balancing) methods an LBDN record. User must not be able to create multiple LBDNs for the same name.

Object Reference

References to record:dtclbdn are object references.

The *name* part of a DTC LBDN record object reference has the following components:

- Name of DTC LBDN record

Example (using _ref or UUID):

```
# Using _ref
record:dtclbdn/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCLBDNRecord1

# Using UUID
record:dtclbdn/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid, view, zone**.

comment

comment

The comment for the DTC LBDN record object; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

disable

disable

Determines whether the DTC LBDN is disabled or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The disable cannot be updated.

disable cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

lbdn

`lbdn`

The DTC LBDN object.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The lbdn cannot be updated.

lbdn cannot be written.

name

`name`

The display name of the DTC LBDN record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

pattern

`pattern`

An FQDN pattern, LBDN wildcards can be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The pattern cannot be updated.

pattern cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone is part of the base object.

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	Y	Y	: = ~
disable	Bool	N	Y	N	=
extattrs	Extattr	N	N	N	ext
last_queried	Timestamp	N	Y	N	N/A
lbdn	String	N	Y	N	N/A
name	String	N	Y	Y	: = ~
pattern	String	N	Y	N	: = ~
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	Y	=

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record:host : DNS Host record object.

A host record defines attributes for a node, such as the name-to-address and address-to-name mapping. This alleviates having to specify an A record and a PTR record separately for the same node. A host can also define aliases and DHCP fixed address nodes. The zone must be created first before adding a host record for the zone.

Object Reference

References to record:host are object references. The *name* part of a Host Record object reference has the following components:

- Name of the host record
- Name of the view

Example:

```
# Using _ref record:host/ZG5zLmhvc3QkLl9kZWZhd3QuaDE:some.name.com/default

# Using UUID record:host/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addrs, ipv6addrs, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addrs	The field is required only for an IPv4 object.
ipv6addrs	The field is required only for an IPv6 object.
name	

aliases

`aliases`

This is a list of aliases for the host. The aliases must be in FQDN format. This value can be in unicode format.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

allow_telnet

`allow_telnet`

This field controls whether the credential is used for both the Telnet and SSH credentials. If set to False, the credential is used only for SSH.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

cli_credentials

`cli_credentials`

The CLI credentials for the host record.

Type

A/An CLI credential struct array.

Create

The default value is *empty*.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

configure_for_dns

`configure_for_dns`

When configure_for_dns is false, the host does not have parent zone information.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

device_description

`device_description`

The description of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_location

`device_location`

The location of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_type

`device_type`

The type of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

device_vendor

`device_vendor`

The vendor of the device.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_discovery

`disable_discovery`

Determines if the discovery for the record is disabled or not. False means that the discovery is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_aliases

`dns_aliases`

The list of aliases for the host in punycode format.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for a host record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

enable_immediate_discovery

`enable_immediate_discovery`

Determines if the discovery for the record should be immediately enabled.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

enable_immediate_discovery is not readable.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4addrs

`ipv4addrs`

This is a list of IPv4 Addresses for the host.

Type

A/An record:host_ipv4addr object array.

This field supports nested return fields as described here.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The field is required only for an IPv4 object.

Search

The field is not available for search.

Notes

The ipv4addrs is part of the base object.

ipv6addrs

`ipv6addrs`

This is a list of IPv6 Addresses for the host.

Type

A/An record:host_ipv6addr object array.

This field supports nested return fields as described here.

This field allows +/- to be specified as part of the field name when updating the object that adds or removes the specified value(s) to the list. An error will be returned if you add already existing value(s) or if you remove non-existent values(s). Note that this is supported only if you use JSON to access the WAPI.

Create

The field is required only for an IPv6 object.

Search

The field is not available for search.

Notes

The ipv6addrs is part of the base object.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

The host name in FQDN format This value can be in unicode format. Regular expression search is not supported for unicode values.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view in which the host record resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default network view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The network_view cannot be updated.

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rrset_order

`rrset_order`

The value of this field specifies the order in which resource record sets are returned.

The possible values are “cyclic”, “random” and “fixed”.

Type

String.

Create

The default value is *cyclic*.

Search

The field is not available for search.

snmp3_credential

`snmp3_credential`

The SNMPv3 credential for a host record.

Type

A/An SNMP v3 Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

snmp_credential

`snmp_credential`

The SNMPv1 or SNMPv2 credential for a host record.

Type

A/An SNMP Credential struct.

Create

The default value is *empty*.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_cli_credentials

`use_cli_credentials`

If set to true, the CLI credential will override member-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns_ea_inheritance

`use_dns_ea_inheritance`

When use_dns_ea_inheritance is True, the EA is inherited from associated zone.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp3_credential

`use_snmp3_credential`

Determines if the SNMPv3 credential should be used for the record.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_snmp_credential

`use_snmp_credential`

If set to true, the SNMP credential will override member-level settings.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

alias

`alias`

The alias to search for.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘!=’ (negative search)

Notes

alias is a search-only field.

ipv4addr

`ipv4addr`

The IPv4 Address to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '>=' (greater than search)
- '!=' (negative search)
- '<=' (less than search)

Notes

ipv4addr is a search-only field.

ipv6addr

`ipv6addr`

The IPv6 Address to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '>=' (greater than search)
- '!=' (negative search)
- '<=' (less than search)

Notes

ipv6addr is a search-only field.

mac

`mac`

The MAC address to search for.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '!=' (negative search)

Notes

mac is a search-only field.

network

network

Search-only field to perform host searches based on provided network. Expects network in FQDN/CIDR format.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

network is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
aliases	[String]	N	N	N	N/A
allow_telnet	Bool	N	N	N	N/A
cli_credentials	[struct]	N	N	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
configure_for_dns	Bool	N	N	N	N/A
creation_time	Timestamp	N	Y	N	N/A
ddns_protected	Bool	N	N	N	N/A
device_description	String	N	N	N	: = ~
device_location	String	N	N	N	: = ~
device_type	String	N	N	N	: = ~
device_vendor	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
disable_discovery	Bool	N	N	N	N/A
dns_aliases	[String]	N	N	N	N/A
dns_name	String	N	Y	N	N/A
enable_immediate_discovery	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv4addrs	[obj]	Y*	N	Y	N/A
ipv6addrs	[obj]	Y*	N	Y	N/A
last_queried	Timestamp	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y	N	Y	: = ~
network_view	String	N	N	N	=
restart_if_needed	Bool	N	N	N	N/A
rrset_order	String	N	N	N	N/A
snmp3_credential	struct	N	N	N	N/A
snmp_credential	struct	N	N	N	N/A
	Unsigned				

ttl	int	N	N	N	N/A
use_cli_credentials	Bool	N	N	N	N/A
use_dns_ea_inheritance	Bool	N	N	N	N/A
use_snmp3_credential	Bool	N	N	N	N/A
use_snmp_credential	Bool	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
alias	String	! : ~
ipv4addr	String	! : < > ~
ipv6addr	String	! : < > ~
mac	String	! : ~
network	String	=

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record:host_ipv4addr : IPv4 Host address object.

A Host Address is an object used to specify addresses in the record.host object.

Fields other than ipv4addr, host and configure_for_dhcp are returned only when configure_for_dhcp is true.

Object Reference

References to record:host_ipv4addr are object references. The *name* part of an IPv4 Host Address object reference has the following components:

- Address of the record
- Name of the host to which the IPv4 address belongs
- Name of the view

Example:

```
# Using _ref record:host_ipv4addr/ZG5zvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

# Using UUID record:host_ipv4addr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **configure_for_dhcp, host, ipv4addr, mac, uuid**.

The following fields are required to create this object:

Field	Notes
ipv4addr	

bootfile

`bootfile`

The name of the boot file the client must download.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

bootserver

The IP address or hostname of the boot file server where the boot file is stored.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

configure_for_dhcp

configure_for_dhcp

Set this to True to enable the DHCP configuration for this host address.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The configure_for_dhcp is part of the base object.

deny_bootp

deny_bootp

Set this to True to disable the BOOTP settings and deny BOOTP boot requests.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

discover_now_status

`discover_now_status`

The discovery status of this Host Address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

`discovered_data`

The discovered data for this Host Address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

enable_pxe_lease_time

enable_pxe_lease_time

Set this to True if you want the DHCP server to use a different lease time for PXE clients. You can specify the duration of time it takes a host to connect to a boot server, such as a TFTP server, and download the file it needs to boot. For example, set a longer lease time if the client downloads an OS (operating system) or configuration file, or set a shorter lease time if the client downloads only configuration changes. Enter the lease time for the preboot execution environment for hosts to boot remotely from a server.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

host

host

The host to which the host address belongs, in FQDN format. It is only present when the host address object is not returned as part of a host.

Type

String.

Search

The field is not available for search.

Notes

The host is part of the base object.

The host cannot be updated.

host cannot be written.

ignore_client_requested_options

ignore_client_requested_options

If this field is set to false, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_client_requested_options is associated with the field use_ignore_client_requested_options (see use flag).

ipv4addr

`ipv4addr`

The IPv4 Address of the host.

Type

String.

The field also supports automatic selection of the next available address in the specified network or range. You can specify the network or range in the following ways:

Using a network or range WAPI reference:

- func:nextavailableip:<reference>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using a range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default
- func:nextavailableip:10.0.0.0/8
- func:nextavailableip:10.0.0.0/8,external
- func:nextavailableip:10.0.0.3-10.0.0.10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can

be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the ‘next_available_ip’ field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

'~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

is_invalid_mac

`is_invalid_mac`

This flag reflects whether the MAC address for this host address is invalid.

Type

Bool.

Search

The field is not available for search.

Notes

The is_invalid_mac cannot be updated.

is_invalid_mac cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this host address.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

mac

`mac`

The MAC address for this host address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mac is part of the base object.

match_client

`match_client`

Set this to 'MAC_ADDRESS' to assign the IP address to the selected host, provided that the MAC address of the requesting host matches the MAC address that you specify in the field.

Set this to 'RESERVED' to reserve this particular IP address for future use, or if the IP address is statically configured on a system (the Infoblox server does not assign the address from a DHCP request).

Type

String.

Create

The default value is *MAC_ADDRESS*.

Search

The field is not available for search.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network of the host address, in FQDN/CIDR format.

Type

String.

Search

The field is not available for search.

Notes

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The name of the network view in which the host address resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view cannot be written.

nextserver

`nextserver`

The name in FQDN format and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

`pxe_lease_time`

The lease time for PXE clients, see *enable_pxe_lease_time* for more information.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

reserved_interface

`reserved_interface`

The reference to the reserved interface to which the device belongs.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

use_deny_bootp

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_for_ea_inheritance

use_for_ea_inheritance

Set this to True when using this host address for EA inheritance.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_client_requested_options

use_ignore_client_requested_options

Use flag for: ignore_client_requested_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

'<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)

- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: “TCP: 21,22,23 UDP: 137,139”. Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: “eth1,eth2,eth3”.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
configure_for_dhcp	Bool	N	N	Y	N/A
deny_bootp	Bool	N	N	N	N/A
discover_now_status	String	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
host	String	N	Y	Y	N/A
ignore_client_requested_options	Bool	N	N	N	N/A
ipv4addr	String	Y	N	Y	= ~
is_invalid_mac	Bool	N	Y	N	N/A
last_queried	Timestamp	N	Y	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
mac	String	N	N	Y	= ~
match_client	String	N	N	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
network	String	N	Y	N	N/A
network_view	String	N	Y	N	=

nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
reserved_interface	String	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_for_ea_inheritance	Bool	N	N	N	N/A
use_ignore_client_requested_options	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~

discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~

discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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record:host_ipv6addr : IPv6 Host address object.

An IPv6 host address is an object used to specify addresses in the record.host object.

Fields other than ipv6addr, host and configure_for_dhcp are returned only when configure_for_dhcp is set to True.

Object Reference

References to record:host_ipv6addr are object references. The *name* part of an IPv6 Host Address object reference has the following components:

- Address of the record
- Name of the host to which the IPv6 host address belongs
- Name of the view

Example:

```
# Using _ref record:host_ipv6addr/ZG5zvc3RjkuMC4xLg:abcd::/some.name.com/default

# Using UUID record:host_ipv6addr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions
- Scheduling
- CSV export

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **configure_for_dhcp, duid, host, ipv6addr, mac, uuid**.

The following fields are required to create this object:

Field	Notes
ipv6addr	See the field description for more information
ipv6prefix	See the field description for more information
ipv6prefix_bits	See the field description for more information
mac	See the field description for more information

address_type

address_type

Type of the DHCP IPv6 Host Address object.

Type

String.

Valid values are:

- ADDRESS
- BOTH
- PREFIX

Create

The default value is *ADDRESS*.

Search

The field is not available for search.

configure_for_dhcp

`configure_for_dhcp`

Set this to True to enable the DHCP configuration for this IPv6 host address.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

The configure_for_dhcp is part of the base object.

discover_now_status

`discover_now_status`

The discovery status of this IPv6 Host Address.

Type

String.

Valid values are:

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

Search

The field is not available for search.

Notes

The discover_now_status cannot be updated.

discover_now_status cannot be written.

discovered_data

`discovered_data`

The discovered data for this host address.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

domain_name

`domain_name`

Use this method to set or retrieve the domain_name value of the DHCP IPv6 Host Address object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name is associated with the field use_domain_name (see use flag).

domain_name_servers

`domain_name_servers`

The IPv6 addresses of DNS recursive name servers to which the DHCP client can send name resolution requests. The DHCP server includes this information in the DNS Recursive Name Server option in Advertise, Rebind, Information-Request, and Reply messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

domain_name_servers is associated with the field use_domain_name_servers (see use flag).

duid

duid

DHCPv6 Unique Identifier (DUID) of the address object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The duid is part of the base object.

host

host

The host to which the IPv6 host address belongs, in FQDN format. It is only present when the host address object is not returned as part of a host.

Type

String.

Search

The field is not available for search.

Notes

The host is part of the base object.

The host cannot be updated.

host cannot be written.

ipv6addr

ipv6addr

The IPv6 Address prefix of the DHCP IPv6 Host Address object.

Type

String.

The field also supports automatic selection of the next available address in the specified IPv6 network or range. You can specify the IPv6 network or range in the following ways:

Using an IPv6 network or range WAPI reference:

- func:nextavailableip:<reference>

Using an IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using an IPv6 range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:abcd%3A%3A/64/default
- func:nextavailableip:abcd::/64
- func:nextavailableip:abcd::/64,external
- func:nextavailableip:abcd::20-abcd::30

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object ipv6network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object ipv6range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

Field ipv6addr is required if address_type is ADDRESS or BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

ipv6prefix

`ipv6prefix`

The IPv6 Address prefix of the DHCP IPv6 Host Address object.

Type

String.

Create

The prefix is required if address_type is PREFIX or BOTH.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

ipv6prefix_bits

`ipv6prefix_bits`

Prefix bits of the DHCP IPv6 Host Address object.

Type

Unsigned integer.

Create

The prefix_bits is required if address_type is PREFIX or BOTH.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this host address.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

mac

`mac`

The MAC address for this host address.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to MAC_ADDRESS.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mac is part of the base object.

match_client

`match_client`

The match_client value for this fixed address. Valid values are: "DUID": The host IP address is leased to the matching DUID. "MAC_ADDRESS": The host IP address is leased to the matching MAC address.

Type

String.

Valid values are:

- DUID
- MAC_ADDRESS

Create

The default value is *DUID*.

Search

The field is available for search via

- '=' (exact equality)

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

network

`network`

The network of the host address, in FQDN/CIDR format.

Type

String.

Search

The field is not available for search.

Notes

The network cannot be updated.

network cannot be written.

network_view

`network_view`

The name of the network view in which the host address resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view cannot be updated.

network_view cannot be written.

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

`preferred_lifetime`

Use this method to set or retrieve the preferred lifetime value of the DHCP IPv6 Host Address object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

reserved_interface

`reserved_interface`

The reference to the reserved interface to which the device belongs.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

use_domain_name

`use_domain_name`

Use flag for: domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_domain_name_servers

`use_domain_name_servers`

Use flag for: domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_for_ea_inheritance

`use_for_ea_inheritance`

Set this to True when using this host address for EA inheritance.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

`use_logic_filter_rules`

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

`use_options`

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

Use this method to set or retrieve the valid lifetime value of the DHCP IPv6 Host Address object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.duid

`discovered_data.`**`duid`**

For IPv6 address only. The DHCP unique identifier of the discovered host. This is an optional field, and data might not be included.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.duid is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: “eth1,eth2,eth3”.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘!=’ (negative search)
- ‘=’ (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)

- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
address_type	String	N	N	N	N/A
configure_for_dhcp	Bool	N	N	Y	N/A
discover_now_status	String	N	Y	N	N/A
discovered_data	struct	N	Y	N	N/A
domain_name	String	N	N	N	N/A
domain_name_servers	[String]	N	N	N	N/A
duid	String	N	N	Y	: = ~
host	String	N	Y	Y	N/A
ipv6addr	String	Y*	N	Y	= ~
ipv6prefix	String	Y*	N	N	= ~
ipv6prefix_bits	Unsigned int	Y*	N	N	< = >
last_queried	Timestamp	N	Y	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
mac	String	N	N	Y	= ~
match_client	String	N	N	N	=
ms_ad_user_data	struct	N	Y	N	N/A
network	String	N	Y	N	N/A
network_view	String	N	Y	N	=
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
reserved_interface	String	N	N	N	N/A
use_domain_name	Bool	N	N	N	N/A
use_domain_name_servers	Bool	N	N	N	N/A
use_for_ea_inheritance	Bool	N	N	N	N/A
use_logic_filter_rules	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
valid_lifetime	Unsigned int	N	N	N	N/A

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~

discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.duid	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~
discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~

discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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Previous topic

record:host_ipv6addr : IPv6 Host address object.

Next topic

record:mx : DNS MX record object.

record:https : DNS HTTPS record object.

The HTTPS DNS RR type (RR type 65) is a variation of SVCB for use with HTTP. For further details see RFC-9460.

Object Reference

References to record:https are object references. The *name* part of a HTTPS record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:https/ZG5zLmJpbmRfY2FN1ZXIxLm9yZw:https_example.com/default

# Using UUID record:https/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, priority, target_name, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
priority	
target_name	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

ddns_protected

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

disable

Determines if the record is disabled or not.False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

forbid_reclamation

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name for a HTTPS record in FQDN format. This value can be in unicode format. Regular expression search is not supported for unicode values.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

priority

`priority`

The priority of the HTTPS record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The priority is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

svc_parameters

`svc_parameters`

Structure to represent SVC Params.

Type

A/An Svc Params structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

target_name

`target_name`

Target name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The target_name is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
priority	Unsigned int	Y	N	Y	< = >
reclaimable	Bool	N	Y	N	=
svc_parameters	[struct]	N	N	N	N/A
target_name	String	Y	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

view	String	N	N	Y	=
zone	String	N	Y	N	=

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- Fields List

Previous topic

record:https : DNS HTTPS record object.

Next topic

record:naptr : DNS NAPTR record object.

record:mx : DNS MX record object.

An MX (mail exchanger) record maps a domain name to a mail exchanger. A mail exchanger is a server that either delivers or forwards mail. You can specify one or more mail exchangers for a zone, as well as the preference for using each mail exchanger. A standard MX record applies to a particular domain or subdomain.

Object Reference

References to record:mx are object references. The *name* part of an MX record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:mx/ZG5zLmhvc3RjkuMC4xLg:some.name.com/myview

# Using UUID
record:mx/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **mail_exchanger, name, preference, uuid, view**.

The following fields are required to create this object:

Field	Notes
mail_exchanger	
name	
preference	

aws_rte53_record_info

aws_rte53_record_info

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

cloud_info

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

comment

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_mail_exchanger

`dns_mail_exchanger`

The Mail exchanger name in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_mail_exchanger cannot be updated.

dns_mail_exchanger cannot be written.

dns_name

`dns_name`

The name for a MX record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

mail_exchanger

`mail_exchanger`

Mail exchanger name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mail_exchanger is part of the base object.

name

`name`

Name for the MX record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

preference

`preference`

Preference value, 0 to 65535 (inclusive) in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The preference is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A

disable	Bool	N	N	N	N/A
dns_mail_exchanger	String	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
mail_exchanger	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
preference	Unsigned int	Y	N	Y	< = >
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Previous topic

record:mx : DNS MX record object.

Next topic

record:ns : DNS NS record object.

record:naptr : DNS NAPTR record object.

A DNS NAPTR object represents a Naming Authority Pointer (NAPTR) resource record. This resource record specifies a regular expression-based rewrite rule that, when applied to an existing string, produces a new domain name or URI.

Object Reference

References to record:naptr are object references. The *name* part of a NAPTR record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:naptr/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

# Using UUID record:naptr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, order, preference, regexp, replacement, services, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
order	
preference	
replacement	

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

creator

The record creator.

Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

ddns_principal

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

ddns_protected

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name of the NAPTR record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_replacement

`dns_replacement`

The replacement field of the NAPTR record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_replacement cannot be updated.

dns_replacement cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

flags

`flags`

The flags used to control the interpretation of the fields for an NAPTR record object. Supported values for the flags field are “U”, “S”, “P” and “A”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the NAPTR record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

order

`order`

The order parameter of the NAPTR records. This parameter specifies the order in which the NAPTR rules are applied when multiple rules are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The order is part of the base object.

preference

`preference`

The preference of the NAPTR record. The preference field determines the order NAPTR records are processed when multiple records with the same order parameter are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)

- '>=' (greater than search)
- '=' (exact equality)

Notes

The preference is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

regexp

`regexp`

The regular expression-based rewriting rule of the NAPTR record. This should be a POSIX compliant regular expression, including the substitution rule and flags. Refer to RFC 2915 for the field syntax details.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is not available for search.

Notes

The regexp is part of the base object.

replacement

`replacement`

The replacement field of the NAPTR record object. For nonterminal NAPTR records, this field specifies the next domain name to look up. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The replacement is part of the base object.

services

`services`

The services field of the NAPTR record object; maximum 128 characters. The services field contains protocol and service identifiers, such as "http+E2U" or "SIPS+D2T".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The services is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value for the NAPTR record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: “external”.

Type

String.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
dns_replacement	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
flags	String	N	N	N	: = ~
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
order	Unsigned int	Y	N	Y	< = >
preference	Unsigned int	Y	N	Y	< = >
reclaimable	Bool	N	Y	N	=
regexp	String	N	N	Y	N/A
replacement	String	Y	N	Y	= ~
services	String	N	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Previous topic

record:naptr : DNS NAPTR record object.

Next topic

record:nsec : DNS NSEC record object.

record:ns : DNS NS record object.

A DNS NS record identifies an authoritative DNS server for a domain. Each authoritative DNS server must have an NS record. The appliance automatically creates an NS record when you assign a grid member as the primary server for a zone. You can manually create NS records for other zones. Extensible Attributes support is deprecated for NS record from NIOS-9.1.0

Object Reference

References to record:ns are object references. The *name* part of a NS record object reference has the following components:

- Name of the authoritative server
- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:ns/ZG5zLmhvc3RjkuMC4xLg:ns1.server.com/some.name.com/default

# Using UUID record:ns/123e4567e89b12d3a456426614174000
```

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, nameserver, uuid, view**.

The following fields are required to create this object:

Field	Notes
addresses	
name	
nameserver	

addresses

`addresses`

The list of zone name servers.

Type

A/An Zone Name Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

`dns_name`

The name of the NS record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

ms_delegation_name

`ms_delegation_name`

The MS delegation point name.

Type

String.

Create

The default value is *Empty string*.

Search

The field is not available for search.

name

`name`

The name of the NS record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

nameserver

`nameserver`

The domain name of an authoritative server for the redirected zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The nameserver is part of the base object.

policy

`policy`

The host name policy for the record.

Type

String.

Search

The field is not available for search.

Notes

The policy cannot be updated.

policy cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
addresses	[struct]	Y	N	N	N/A
cloud_info	struct	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
last_queried	Timestamp	N	Y	N	N/A
ms_delegation_name	String	N	N	N	N/A
name	String	Y	N	Y	: = ~
nameserver	String	Y	N	Y	: = ~
policy	String	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:ns : DNS NS record object.

Next topic

record:nsec3 : DNS NSEC3 record object.

record:nsec : DNS NSEC record object.

NSEC resource record is one of the resource records included in the DNS security extension mechanism (DNSSEC). This record is used to provide authenticated denial of existence of a resource record in response to a resolver query.

NSEC resource records are defined in RFC 4034.

NSEC records are automatically generated upon the signing of an authoritative zone.

The *name* part of a DNS NSEC object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:nsec/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:nsec/123e4567e89b12d3a456426614174000
```

Object Reference

References to record:nsec are object references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

creation_time

`creation_time`

Time that the record was created.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

Creator of the record.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

`dns_name`

Name for an NSEC record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_next_owner_name

`dns_next_owner_name`

Name of the next owner in punycode format.

Type

String.

Search

The field is not available for search.

Notes

The dns_next_owner_name cannot be updated.

dns_next_owner_name cannot be written.

last_queried

last_queried

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

name

The name of the NSEC record in FQDN format.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

next_owner_name

next_owner_name

Name of the next owner that has authoritative data or that contains a delegation point NS record.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The next_owner_name cannot be updated.

next_owner_name cannot be written.

rrset_types

`rrset_types`

The RRSet types that exist at the original owner name of the NSEC RR.

Type

String array.

Search

The field is not available for search.

Notes

The rrset_types cannot be updated.

rrset_types cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
dns_next_owner_name	String	N	Y	N	N/A
last_queried	Timestamp	N	Y	N	N/A

name	String	N	Y	Y	: = ~
next_owner_name	String	N	Y	N	: = ~
rrset_types	[String]	N	Y	N	N/A
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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  - zone
- Fields List

Previous topic

record:nsec : DNS NSEC record object.

Next topic

record:nsec3param : DNS NSEC3 record object.

record:nsec3 : DNS NSEC3 record object.

When a name server receives a request for a domain name that does not exist in a zone, the name server sends an authenticated negative response in the form of an NSEC or NSEC3 RR. NSEC and NSEC3 records contain the next secure domain name in a zone and list the RR types present at the NSEC or NSEC3 RR's owner name. The difference between an NSEC and NSEC3 RRs is that the owner name in an NSEC3 RR is a cryptographic hash of the original owner name prepended to the name of the zone. NSEC3 RRs protect against zone enumeration.

NSEC3 resource record is described in RFC 5155.

NSEC3 records are automatically generated during signing of the corresponding zone.

The *name* part of a DNS NSEC3 object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:nsec3/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:nsec3/123e4567e89b12d3a456426614174000
```

Object Reference

References to record:nsec3 are object references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be

requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

algorithm

`algorithm`

The hash algorithm that was used.

Type

String.

Valid values are:

- DSA
- ECDSAP256SHA256
- ECDSAP384SHA384
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512

Search

The field is available for search via

- '=' (exact equality)

Notes

The algorithm cannot be updated.

algorithm cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

Creator of the record.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

`dns_name`

Name for an NSEC3 record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

flags

`flags`

The set of 8 one-bit flags, of which only one flag, the Opt-Out flag, is defined by RFC 5155. The Opt-Out flag indicates whether the NSEC3 record covers unsigned delegations.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The flags cannot be updated.

flags cannot be written.

iterations

`iterations`

The number of times the hash function was performed. RFC 9276 Section 3.1 mandates that this value MUST be set to zero (0) to ensure DNSSEC resolver compatibility and alleviate computational burdens on validating resolvers.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The iterations cannot be updated.

iterations cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the NSEC3 record in FQDN format.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

next_owner_name

next_owner_name

The hashed next owner name that has authoritative data or that contains a delegation point NS record.

Type

String.

Search

The field is not available for search.

Notes

The next_owner_name cannot be updated.

next_owner_name cannot be written.

rrset_types

rrset_types

The RRSet types that exist at the original owner name of the NSEC3 RR.

Type

String array.

Search

The field is not available for search.

Notes

The rrset_types cannot be updated.

rrset_types cannot be written.

salt

salt

A series of case-insensitive hexadecimal digits. It is appended to the original owner name as protection against pre-calculated dictionary attacks. A new salt value is generated when ZSK rolls over. You can control the period of the rollover. RFC 9276 recommends using an empty salt (0 octets) for optimal resolver compatibility and reduced computational overhead. For random salt values, the selected length is between zero and 255 octets.

Type

String.

Search

The field is not available for search.

Notes

The salt cannot be updated.

salt cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the

default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
algorithm	String	N	Y	N	=
cloud_info	struct	N	Y	N	N/A
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
flags	Unsigned int	N	Y	N	< = >
iterations	Unsigned int	N	Y	N	< = >
last_queried	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
next_owner_name	String	N	Y	N	N/A
rrset_types	[String]	N	Y	N	N/A
salt	String	N	Y	N	N/A
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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- Fields List

Previous topic

record:nsec3 : DNS NSEC3 record object.

Next topic

record:ptr : DNS PTR record object.

record:nsec3param : DNS NSEC3 record object.

An authoritative DNS server uses NSEC3PARAM RRs to determine which NSEC3 records it includes in its negative responses. An NSEC3PARAM RR contains the parameters that an authoritative server needs to calculate hashed owner names. As stated in RFC 5155, the presence of an NSEC3PARAM RR at a zone apex indicates that the specified parameters may be used by authoritative servers to choose an appropriate set of NSEC3 RRs for negative responses.

The NSEC3PARAM resource record is described in RFC 5155.

The NSEC3PARAM record is generated automatically upon the signing of the corresponding zone.

The *name* part of a DNS NSEC3PARAM object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:nsec3param/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:nsec3param/123e4567e89b12d3a456426614174000
```

Object Reference

References to record:nsec3param are object references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

algorithm

algorithm

The hash algorithm that was used.

Type

String.

Valid values are:

- DSA
- ECDSAP256SHA256
- ECDSAP384SHA384
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512

Search

The field is available for search via

- '=' (exact equality)

Notes

The algorithm cannot be updated.

algorithm cannot be written.

cloud_info

cloud_info

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

creation_time

creation_time

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

Creator of the record.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

`dns_name`

Name for an NSEC3PARAM record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

flags

`flags`

The set of 8 one-bit flags, of which only one flag, the Opt-Out flag, is defined by RFC 5155. The Opt-Out flag indicates whether the NSEC3 record covers unsigned delegations.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The flags cannot be updated.

flags cannot be written.

iterations

`iterations`

The number of times the hash function was performed.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The iterations cannot be updated.

iterations cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the NSEC3PARAM record in FQDN format. It has to be the same as the zone, where the record resides.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

salt

`salt`

A series of case-insensitive hexadecimal digits. It is appended to the original owner name as protection against pre-calculated dictionary attacks. A new salt value is generated when the ZSK rolls over, for which the user can control the period. For a random salt value, the selected length is between one and 15 octets.

Type

String.

Search

The field is not available for search.

Notes

The salt cannot be updated.

salt cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
algorithm	String	N	Y	N	=
cloud_info	struct	N	Y	N	N/A
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
flags	Unsigned int	N	Y	N	< = >
iterations	Unsigned int	N	Y	N	< = >
last_queried	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
salt	String	N	Y	N	N/A
ttl	Unsigned int	N	Y	N	N/A
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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  - Search-only Fields
    - discovered_data.ap_ip_address
    - discovered_data.ap_name
    - discovered_data.ap_ssid
    - discovered_data.bgp_as
    - discovered_data.bridge_domain
    - discovered_data.cisco_ise_endpoint_profile
    - discovered_data.cisco_ise_security_group
    - discovered_data.cisco_ise_session_state
    - discovered_data.cisco_ise_ssid
    - discovered_data.cmp_type
    - discovered_data.device_contact
    - discovered_data.device_location
    - discovered_data.device_model
    - discovered_data.device_port_name
    - discovered_data.device_port_type
    - discovered_data.device_type

record:ptr : DNS PTR record object.

In a forward-mapping zone, a PTR (pointer) record maps a domain name to another domain name. In a reverse-mapping zone, a PTR (pointer) record maps an address to a domain name. To define a specific address-to-name mapping, add a PTR record to a previously defined authoritative reverse-mapping zone.

Object Reference

References to record:ptr are object references. The *name* part of a DNS PTR object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:ptr/ZG5zLmJpsaG9zdA:1.0.0.127.in-addr.arpa/default.external

# Using UUID record:ptr/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ptrdname, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addr	The field is required only for an IPv4 PTR object.
ipv6addr	The field is required only for an IPv6 PTR object.
name	See the field description for more information
ptrdname	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

discovered_data

`discovered_data`

The discovered data for this PTR record.

Type

A/An Discovered data struct.

Search

The field is not available for search.

Notes

The discovered_data cannot be updated.

discovered_data cannot be written.

dns_name

`dns_name`

The name for a DNS PTR record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_ptrdname

`dns_ptrdname`

The domain name of the DNS PTR record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_ptrdname cannot be updated.

dns_ptrdname cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv4addr

`ipv4addr`

The IPv4 Address of the record.

Type

String.

The field also supports automatic selection of the next available address in the specified network or range. You can specify the network or range in the following ways:

Using a network or range WAPI reference:

- func:nextavailableip:<reference>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using a range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default
- func:nextavailableip:10.0.0.0/8
- func:nextavailableip:10.0.0.0/8,external
- func:nextavailableip:10.0.0.3-10.0.0.10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required only for an IPv4 PTR object.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

ipv6addr

`ipv6addr`

The IPv6 Address of the record.

Type

String.

The field also supports automatic selection of the next available address in the specified IPv6 network or range. You can specify the IPv6 network or range in the following ways:

Using an IPv6 network or range WAPI reference:

- func:nextavailableip:<reference>

Using an IPv6 network lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<network>[,<network view>]

Using an IPv6 range lookup (if the view is not specified, the default view will be used):

- func:nextavailableip:<start_addr-end_addr>[,<network view>]

Scheduled and approval operations are not supported when using the automatic IP selection.

If you specify a network view for automatic IP selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic IP selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailableip:network/ZG54dfgsrDFEFfsfsLzA:abcd%3A%3A/64/default
- func:nextavailableip:abcd::/64
- func:nextavailableip:abcd::/64,external
- func:nextavailableip:abcd::20-abcd::30

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_ip function call in object ipv6network (default parameters: **{'num': 1}**)
- the next_available_ip function call in object ipv6range (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required only for an IPv6 PTR object.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

The name of the DNS PTR record in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only for an PTR object in Forward Mapping Zone.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ptrdname

`ptrdname`

The domain name of the DNS PTR record in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ptrdname is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

ttl

`ttl`

Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, that the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

Name of the DNS View in which the record resides, for example “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

`zone`

The name of the zone in which the record resides. For example: “zone.com”.

If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

discovered_data.ap_ip_address

`discovered_data.`**`ap_ip_address`**

Discovered IP address of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

`discovered_data.`**`ap_name`**

Discovered name of Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

`discovered_data.`**`ap_ssid`**

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.ap_ssid is a search-only field.

discovered_data.bgp_as

`discovered_data.`**`bgp_as`**

The BGP autonomous system number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.bgp_as is a search-only field.

discovered_data.bridge_domain

`discovered_data.`**`bridge_domain`**

Discovered bridge domain.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

`discovered_data.`**`cisco_ise_endpoint_profile`**

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

`discovered_data.`**`cisco_ise_security_group`**

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

discovered_data.cisco_ise_session_state

`discovered_data.`**`cisco_ise_session_state`**

The Cisco ISE session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.cisco_ise_session_state is a search-only field.

discovered_data.cisco_ise_ssid

`discovered_data.`**`cisco_ise_ssid`**

The Cisco ISE SSID.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cisco_ise_ssid is a search-only field.

discovered_data.cmp_type

`discovered_data.`**`cmp_type`**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.cmp_type is a search-only field.

discovered_data.device_contact

`discovered_data.`**`device_contact`**

Contact information from device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_contact is a search-only field.

discovered_data.device_location

`discovered_data.`**`device_location`**

Location of device on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_location is a search-only field.

discovered_data.device_model

`discovered_data.`**`device_model`**

The model name of the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_model is a search-only field.

discovered_data.device_port_name

`discovered_data.`**`device_port_name`**

The system name of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_name is a search-only field.

discovered_data.device_port_type

`discovered_data.`**`device_port_type`**

The hardware type of the interface associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_port_type is a search-only field.

discovered_data.device_type

`discovered_data.`**`device_type`**

The type of end host in vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_type is a search-only field.

discovered_data.device_vendor

`discovered_data.`**`device_vendor`**

The vendor name of the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.device_vendor is a search-only field.

discovered_data.discovered_name

`discovered_data.`**`discovered_name`**

The name of the network device associated with the discovered IP address.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discovered_name is a search-only field.

discovered_data.discoverer

`discovered_data.`**`discoverer`**

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

`discovered_data.`**`endpoint_groups`**

A comma-separated list of discovered endpoint groups.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.endpoint_groups is a search-only field.

discovered_data.first_discovered

`discovered_data.`**`first_discovered`**

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

`discovered_data.`**`iprg_no`**

The port redundant group number.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.iprg_no is a search-only field.

discovered_data.iprg_state

`discovered_data.`**`iprg_state`**

The status for the IP address within port redundant group.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_state is a search-only field.

discovered_data.iprg_type

`discovered_data.`**`iprg_type`**

The port redundant group type.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.iprg_type is a search-only field.

discovered_data.last_discovered

`discovered_data.`**`last_discovered`**

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.last_discovered is a search-only field.

discovered_data.mac_address

`discovered_data.`**`mac_address`**

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mac_address is a search-only field.

discovered_data.mgmt_ip_address

`discovered_data.`**`mgmt_ip_address`**

The management IP address of the end host that has more than one IP.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.mgmt_ip_address is a search-only field.

discovered_data.netbios_name

`discovered_data.`**`netbios_name`**

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.netbios_name is a search-only field.

discovered_data.network_component_contact

`discovered_data.`**`network_component_contact`**

Contact information from network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_contact is a search-only field.

discovered_data.network_component_description

`discovered_data.`**`network_component_description`**

A textual description of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

`discovered_data.`**`network_component_ip`**

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.network_component_ip is a search-only field.

discovered_data.network_component_location

`discovered_data.`**`network_component_location`**

Location of network component on which the IP address was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_location is a search-only field.

discovered_data.network_component_model

`discovered_data.`**`network_component_model`**

Model name of the switch port connected to the end device in the vendor terminology.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_model is a search-only field.

discovered_data.network_component_name

`discovered_data.`**`network_component_name`**

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_name is a search-only field.

discovered_data.network_component_port_description

`discovered_data.`**`network_component_port_description`**

A textual description of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_description is a search-only field.

discovered_data.network_component_port_name

`discovered_data.`**`network_component_port_name`**

The name of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_name is a search-only field.

discovered_data.network_component_port_number

`discovered_data.`**`network_component_port_number`**

The number of the switch port connected to the end device.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.network_component_port_number is a search-only field.

discovered_data.network_component_type

`discovered_data.`**`network_component_type`**

Identifies the switch that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_type is a search-only field.

discovered_data.network_component_vendor

`discovered_data.`**`network_component_vendor`**

The vendor name of the switch port connected to the end host.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.network_component_vendor is a search-only field.

discovered_data.open_ports

`discovered_data.`**`open_ports`**

The list of opened ports on the IP address, represented as: "TCP: 21,22,23 UDP: 137,139". Limited to max total 1000 ports.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.open_ports is a search-only field.

discovered_data.os

`discovered_data.`**`os`**

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.os is a search-only field.

discovered_data.port_duplex

`discovered_data.`**`port_duplex`**

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_duplex is a search-only field.

discovered_data.port_link_status

`discovered_data.`**`port_link_status`**

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

`discovered_data.`**`port_speed`**

The interface speed, in Mbps, of the switch port.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_speed is a search-only field.

discovered_data.port_status

`discovered_data.`**`port_status`**

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.port_status is a search-only field.

discovered_data.port_type

`discovered_data.`**`port_type`**

The type of switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

discovered_data.port_type is a search-only field.

discovered_data.port_vlan_description

`discovered_data.`**`port_vlan_description`**

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

`discovered_data.`**`port_vlan_name`**

The name of the VLAN of the switch port.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.port_vlan_name is a search-only field.

discovered_data.port_vlan_number

`discovered_data.`**`port_vlan_number`**

The ID of the VLAN of the switch port.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)

‘=’ (exact equality)

Notes

discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

`discovered_data.`**`task_name`**

The name of the discovery task.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

`discovered_data.`**`tenant`**

Discovered tenant.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.tenant is a search-only field.

discovered_data.v_adapter

`discovered_data.`**`v_adapter`**

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)

‘=’ (exact equality)

Notes

discovered_data.v_adapter is a search-only field.

discovered_data.v_cluster

`discovered_data.`**`v_cluster`**

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_cluster is a search-only field.

discovered_data.v_datacenter

`discovered_data.`**`v_datacenter`**

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_datacenter is a search-only field.

discovered_data.v_entity_name

`discovered_data.`**`v_entity_name`**

The name of the virtual entity.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

discovered_data.v_entity_name is a search-only field.

discovered_data.v_entity_type

`discovered_data.`**`v_entity_type`**

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.v_entity_type is a search-only field.

discovered_data.v_host

`discovered_data.`**`v_host`**

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_host is a search-only field.

discovered_data.v_switch

`discovered_data.`**`v_switch`**

The name of the switch to which the virtual entity is connected.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

`discovered_data.`**`vlan_port_group`**

Port group which the virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vlan_port_group is a search-only field.

discovered_data.vmhost_ip_address

`discovered_data.`**`vmhost_ip_address`**

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_ip_address is a search-only field.

discovered_data.vmhost_mac_address

`discovered_data.`**`vmhost_mac_address`**

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

`discovered_data.`**`vmhost_name`**

Name of the physical node on which the virtual machine is hosted.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names

`discovered_data.`**`vmhost_nic_names`**

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: "eth1,eth2,eth3".

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr

`discovered_data.`**`vmhost_subnet_cidr`**

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vmhost_subnet_cidr is a search-only field.

discovered_data.vmi_id

`discovered_data.`**`vmi_id`**

ID of the virtual machine.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_id is a search-only field.

discovered_data.vmi_ip_type

`discovered_data.`**`vmi_ip_type`**

Discovered IP address type.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_ip_type is a search-only field.

discovered_data.vmi_is_public_address

`discovered_data.`**`vmi_is_public_address`**

Indicates whether the IP address is a public address.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_is_public_address is a search-only field.

discovered_data.vmi_name

`discovered_data.`**`vmi_name`**

Name of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

`discovered_data.`**`vmi_private_address`**

Private IP address of the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

`discovered_data.`**`vmi_tenant_id`**

ID of the tenant which virtual machine belongs to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vmi_tenant_id is a search-only field.

discovered_data.vport_conf_mode

`discovered_data.`**`vport_conf_mode`**

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_conf_mode is a search-only field.

discovered_data.vport_conf_speed

`discovered_data.`**`vport_conf_speed`**

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_conf_speed is a search-only field.

discovered_data.vport_link_status

`discovered_data.`**`vport_link_status`**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_link_status is a search-only field.

discovered_data.vport_mac_address

`discovered_data.`**`vport_mac_address`**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vport_mac_address is a search-only field.

discovered_data.vport_mode

`discovered_data.`**`vport_mode`**

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vport_mode is a search-only field.

discovered_data.vport_name

`discovered_data.`**`vport_name`**

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- '=' (exact equality)

Notes

discovered_data.vport_name is a search-only field.

discovered_data.vport_speed

`discovered_data.`**`vport_speed`**

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vport_speed is a search-only field.

discovered_data.vrf_description

`discovered_data.`**`vrf_description`**

Description of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_description is a search-only field.

discovered_data.vrf_name

`discovered_data.`**`vrf_name`**

The name of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vrf_name is a search-only field.

discovered_data.vrf_rd

`discovered_data.`**`vrf_rd`**

Route distinguisher of the VRF.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

discovered_data.vrf_rd is a search-only field.

discovered_data.vswitch_available_ports_count

`discovered_data.`**`vswitch_available_ports_count`**

Numer of available ports reported by the virtual switch on
which the virtual machine/vport connected to.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

Notes

discovered_data.vswitch_available_ports_count is a search-only field.

discovered_data.vswitch_id

`discovered_data.`**`vswitch_id`**

ID of the virtual switch.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_id is a search-only field.

discovered_data.vswitch_ipv6_enabled

`discovered_data.`**`vswitch_ipv6_enabled`**

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_ipv6_enabled is a search-only field.

discovered_data.vswitch_name

`discovered_data.`**`vswitch_name`**

Name of the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id

`discovered_data.`**`vswitch_segment_id`**

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name

`discovered_data.`**`vswitch_segment_name`**

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_name is a search-only field.

discovered_data.vswitch_segment_port_group

`discovered_data.`**`vswitch_segment_port_group`**

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_port_group is a search-only field.

discovered_data.vswitch_segment_type

`discovered_data.`**`vswitch_segment_type`**

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_segment_type is a search-only field.

discovered_data.vswitch_tep_dhcp_server

`discovered_data.`**`vswitch_tep_dhcp_server`**

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

discovered_data.vswitch_tep_ip

`discovered_data.`**`vswitch_tep_ip`**

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

`discovered_data.`**`vswitch_tep_multicast`**

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

`discovered_data.`**`vswitch_tep_port_group`**

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type

`discovered_data.`**`vswitch_tep_type`**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan

`discovered_data.`**`vswitch_tep_vlan`**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

discovered_data.vswitch_tep_vlan is a search-only field.

discovered_data.vswitch_type

`discovered_data.`**`vswitch_type`**

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Search

The field is available for search via

- '=' (exact equality)

Notes

discovered_data.vswitch_type is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
discovered_data	struct	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
dns_ptrdname	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
ipv4addr	String	Y*	N	N	= ~
ipv6addr	String	Y*	N	N	= ~
last_queried	Timestamp	N	Y	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y*	N	N	: = ~
ptrdname	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

* Required in some cases, see detailed field description above.

Search-only Fields List

Field	Type	Search
discovered_data.ap_ip_address	String	: = ~
discovered_data.ap_name	String	: = ~
discovered_data.ap_ssid	String	: = ~
discovered_data.bgp_as	Unsigned int	! < = >
discovered_data.bridge_domain	String	: = ~
discovered_data.cisco_ise_endpoint_profile	String	: = ~
discovered_data.cisco_ise_security_group	String	: = ~
discovered_data.cisco_ise_session_state	String	=
discovered_data.cisco_ise_ssid	String	: = ~
discovered_data.cmp_type	String	: = ~
discovered_data.device_contact	String	: = ~
discovered_data.device_location	String	: = ~
discovered_data.device_model	String	: = ~
discovered_data.device_port_name	String	: = ~
discovered_data.device_port_type	String	: = ~
discovered_data.device_type	String	: = ~
discovered_data.device_vendor	String	: = ~
discovered_data.discovered_name	String	: = ~
discovered_data.discoverer	String	: = ~
discovered_data.endpoint_groups	String	: = ~
discovered_data.first_discovered	Timestamp	! < = >
discovered_data.iprg_no	Unsigned int	! < = >
discovered_data.iprg_state	String	=
discovered_data.iprg_type	String	=
discovered_data.last_discovered	Timestamp	! < = >
discovered_data.mac_address	String	: = ~
discovered_data.mgmt_ip_address	String	: = ~
discovered_data.netbios_name	String	: = ~
discovered_data.network_component_contact	String	: = ~
discovered_data.network_component_description	String	: = ~
discovered_data.network_component_ip	String	= ~
discovered_data.network_component_location	String	: = ~
discovered_data.network_component_model	String	: = ~
discovered_data.network_component_name	String	: = ~
discovered_data.network_component_port_description	String	: = ~
discovered_data.network_component_port_name	String	: = ~
discovered_data.network_component_port_number	Unsigned int	! < = >
discovered_data.network_component_type	String	: = ~
discovered_data.network_component_vendor	String	: = ~
discovered_data.open_ports	String	: = ~
discovered_data.os	String	: = ~
discovered_data.port_duplex	String	=
discovered_data.port_link_status	String	=
discovered_data.port_speed	String	=
discovered_data.port_status	String	=
discovered_data.port_type	String	: = ~
discovered_data.port_vlan_description	String	: = ~
discovered_data.port_vlan_name	String	: = ~
discovered_data.port_vlan_number	Unsigned int	! < = >
discovered_data.task_name	String	: = ~
discovered_data.tenant	String	: = ~
discovered_data.v_adapter	String	: = ~
discovered_data.v_cluster	String	: = ~

discovered_data.v_datacenter	String	: = ~
discovered_data.v_entity_name	String	: = ~
discovered_data.v_entity_type	String	=
discovered_data.v_host	String	: = ~
discovered_data.v_switch	String	: = ~
discovered_data.vlan_port_group	String	: = ~
discovered_data.vmhost_ip_address	String	: = ~
discovered_data.vmhost_mac_address	String	: = ~
discovered_data.vmhost_name	String	: = ~
discovered_data.vmhost_nic_names	String	: = ~
discovered_data.vmhost_subnet_cidr	Unsigned int	! < = >
discovered_data.vmi_id	String	=
discovered_data.vmi_ip_type	String	: = ~
discovered_data.vmi_is_public_address	Bool	=
discovered_data.vmi_name	String	: = ~
discovered_data.vmi_private_address	String	: = ~
discovered_data.vmi_tenant_id	String	=
discovered_data.vport_conf_mode	String	=
discovered_data.vport_conf_speed	Unsigned int	! < = >
discovered_data.vport_link_status	String	: = ~
discovered_data.vport_mac_address	String	: = ~
discovered_data.vport_mode	String	=
discovered_data.vport_name	String	: = ~
discovered_data.vport_speed	Unsigned int	! < = >
discovered_data.vrf_description	String	: = ~
discovered_data.vrf_name	String	: = ~
discovered_data.vrf_rd	String	= ~
discovered_data.vswitch_available_ports_count	Unsigned int	! < = >
discovered_data.vswitch_id	String	=
discovered_data.vswitch_ipv6_enabled	Bool	=
discovered_data.vswitch_name	String	: = ~
discovered_data.vswitch_segment_id	String	=
discovered_data.vswitch_segment_name	String	: = ~
discovered_data.vswitch_segment_port_group	String	: = ~
discovered_data.vswitch_segment_type	String	: = ~
discovered_data.vswitch_tep_dhcp_server	String	: = ~
discovered_data.vswitch_tep_ip	String	: = ~
discovered_data.vswitch_tep_multicast	String	: = ~
discovered_data.vswitch_tep_port_group	String	: = ~
discovered_data.vswitch_tep_type	String	: = ~
discovered_data.vswitch_tep_vlan	String	: = ~
discovered_data.vswitch_type	String	=

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Previous topic

record:ptr : DNS PTR record object.

Next topic

record:rpz:a:ipaddress : Response Policy Zone Substitute IPv4 Address Rule object.

record:rpz:a : Response Policy Zone Substitute A Record Rule object.

An RPZ Substitute (A Record) Rule maps a domain name to a substitute IPv4 address. To define a specific name-to-address mapping, add an Substitute (A Record) Rule to a previously defined Response Policy Zone.

This record represents the substitution rule for DNS A records.

Object Reference

References to record:rpz:a are object references. The *name* part of a Substitute (A Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:
record:rpz:a/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addr	
name	
rp_zone	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4addr

`ipv4addr`

The IPv4 Address of the substitute rule.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides.

Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A

extattrs	Extattr	N	N	N	ext
ipv4addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

Rule object.

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record:rpz:a:ipaddress : Response Policy Zone Substitute IPv4 Address Rule object.

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- Fields List

Previous topic

record:rpz:a : Response Policy Zone Substitute A Record Rule object.

Next topic

record:rpz:aaaa : Response Policy Zone Substitute AAAA Record Rule object.

record:rpz:a:ipaddress : Response Policy Zone Substitute IPv4 Address Rule object.

An RPZ AIpAddress is an Substitute (IPv4 Address) Rule that maps an IP address represented by a host name to a substitute IPv4 address. To define a specific address-to-address mapping, add an Substitute (IPv4 Address) Rule to a previously defined Response Policy Zone.

This record represents the substitution rule for IP trigger policy. It matches IP addresses that would otherwise appear in A record in the “answer” section of DNS response.

You should use this object to create IP address substitution rules instead usage CNAMEIpAddress object.

Object Reference

References to record:rpz:a:ipaddress are object references. The *name* part of an AIpAddress record object reference has the following components:

- Name of the record
- Name of the view

Example:
record:rpz:a:ipaddress/ZG5zLmhvc3RjkuMC4xLg:9.0.0.0/16.rpz.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addr	
name	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when

updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4addr

`ipv4addr`

The IPv4 Address of the substitute rule.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv4addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:rpz:aaaa : Response Policy Zone Substitute AAAA Record Rule object.
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- Fields List

Previous topic

record:rpz:a:ipaddress : Response Policy Zone Substitute IPv4 Address Rule object.

Next topic

record:rpz:aaaa:ipaddress : Response Policy Zone Substitute IPv6 Address Rule object.

record:rpz:aaaa : Response Policy Zone Substitute AAAA Record Rule object.

An RPZ Substitute (AAAA Record) Rule, maps a domain name to a substitute IPv6 address. To define a specific name-to-address mapping, add an Substitute (AAAA Record) Rule to a previously defined Response Policy Zone.

This record represents the substitution rule for DNS AAAA records.

Object Reference

References to record:rpz:aaaa are object references. The *name* part of a Substitute (AAAA Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example: record:rpz:aaaa/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv6addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv6addr	
name	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6addr

`ipv6addr`

The IPv6 Address of the substitute rule.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext

ipv6addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

Record Rule object.

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- Fields List

Previous topic

record:rpz:aaaa : Response Policy Zone Substitute AAAA Record Rule object.

Next topic

record:rpz:cname : DNS Response Policy Zone CNAME record object.

record:rpz:aaaa:ipaddress : Response Policy Zone Substitute IPv6 Address Rule object.

An RPZ Substitute (IPv6 Address) Rule maps an IP address represented by a host name to a substitute IPv6 address. To define a specific address-to-address mapping, add an RPZ Substitute (IPv6 Address) Rule to a previously defined Response Policy Zone.

This record represents the substitution rule for IP trigger policy. It matches IP addresses that would otherwise appear in AAAA record in the “answer” section of DNS response.

You should use this object to create IP address substitution rules instead usage CNAMEIpAddress object.

Object Reference

References to record:rpz:aaaa:ipaddress are object references. The *name* part of an AAAAIpAddress record object reference has the following components:

- Name of the record
- Name of the view

Example: record:rpz:aaaa:ipaddress/ZG5zLmhvc3RjkuMC4xLg:20::/16.rpz.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv6addr, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv6addr	
name	
rp_zone	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6addr

`ipv6addr`

The IPv6 Address of the substitute rule.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

rp_zone

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

ttl

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv6addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:rpz:cname : DNS Response Policy Zone CNAME record object.
- Object Reference
- Restrictions
- Fields
  - canonical
  - comment
  - disable
  - extattrs
  - name
  - rp_zone
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:aaaa:ipaddress : Response Policy Zone Substitute IPv6 Address Rule object.

Next topic

record:rpz:cname:clientipaddress : DNS RPZ CNAMEClientIpAddress record object.

record:rpz:cname : DNS Response Policy Zone CNAME record object.

An RPZ CNAME record represents different RPZ rules, depending on the value of the canonical name. The intention of this object is to support QNAME Trigger policy. The QNAME policy trigger applies to requested domain names (QNAME). This record represents Passthru Domain Name Rule, Block Domain Name (No Such Domain) Rule, Block Domain Name (No Data) Rule and Substitute (Domain Name) Rule.

If canonical name is empty, it is a Block Domain Name (No Such Domain) Rule.

If canonical name is asterisk, it is a Block Domain Name (No Data) Rule.

If canonical name is the same as record name, it is a Passthru Domain Name Rule. If name of object starts with wildcard you must specify special value ‘infoblox-passthru’ in canonical name in order to create Wildcard Passthru Domain Name Rule, for more details please see the Infoblox Administrator Guide.

If canonical name is not Block Domain Name (No Such Domain) Rule, Block Domain Name (No Data) Rule, or Passthru Domain Name Rule, it is a substitution rule.

Object Reference

References to record:rpz:cname are object references. The *name* part of a RPZ CNAME object reference has the following components:

- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:rpz:cname/ZG5zLmJpbmRfY25h:some.name.com/myview
# Using UUID
record:rpz:cname/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
rp_zone	

canonical

`canonical`

The canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

ttl

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

'~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:rpz:cname:clientipaddress : DNS RPZ CNAMEClientIpAddress record object.
- Object Reference
- Restrictions
- Fields
  - canonical
  - comment
  - disable
  - extattrs
  - is_ipv4
  - name
  - rp_zone
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:cname : DNS Response Policy Zone CNAME record object.

Next topic

record:rpz:cname:clientipaddressdn : Substitute Domain Name Based on Client IP Address rule object.

record:rpz:cname:clientipaddress : DNS RPZ CNAMEClientIpAddress record object.

A DNS RPZ CNAMEClientIpAddress record represents different RPZ rules, depending on the value of the canonical name. This record represents Passthru IP Address Rule, Block IP Address (No Such Domain) Rule, Block IP Address (No Data) Rule.

This record represents the IP trigger policy. It matches IP addresses that would otherwise appear in A and AAAA records in the “answer” section of a DNS response.

If canonical name is empty, it is a Block IP Address (No Such Domain) Rule.

If canonical name is an asterisk, it is a Block IP Address (No Data) Rule.

If canonical name is equal to ‘rpz-passthru’, it is a Passthru IP Address Rule.

You cannot create Substitute (IPv4/IPv6 Address) Rule for this record see the record.rpz.a.ipaddress object or the record.rpz.aaaa.ipaddress object for details.

Object Reference

References to record:rpz:cname:clientipaddress are object references. The *name* part of a Response Policy Zone (RPZ) CNAMEClientIpAddress record object reference has the following components:

- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25h:some.name.com/myview
# Using UUID
record:rpz:cname:clientipaddress/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
rp_zone	

canonical

`canonical`

The canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is

enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_ipv4

`is_ipv4`

Indicates whether the record is an IPv4 record. If the return value is “true”, it is an IPv4 record. Otherwise, it is an IPv6 record.

Type

Bool.

Search

The field is not available for search.

Notes

The is_ipv4 cannot be updated.

is_ipv4 cannot be written.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
is_ipv4	Bool	N	Y	N	N/A
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:rpz:cname:clientipaddressdn : Substitute Domain Name Based on Client IP Address rule object.
- Object Reference
- Restrictions
- Fields
  - canonical
  - comment
  - disable
  - extattrs
  - is_ipv4
  - name
  - rp_zone
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:cname:clientipaddress : DNS RPZ CNAMEClientIpAddress record object.

Next topic

record:rpz:cname:ipaddress : DNS RPZ CNAMEIpAddress record object.

record:rpz:cname:clientipaddressdn : Substitute Domain Name Based on Client IP Address rule object.

A DNS Substitute Domain Name (Based on Client IP Address) rule represents different Response Policy Zone (RPZ) rules, depending on the value of the canonical name.

This rule represents Substitute (Domain Name) Rule.

Object Reference

References to record:rpz:cname:clientipaddressdn are object references. The *name* part of a Substitute Domain Name (Based on Client IP Address) rule object reference has the following components:

- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:rpz:cname:clientipaddressdn/ZG5zLmJpbmRfY25h:some.name.com/myview
# Using UUID
record:rpz:cname:clientipaddressdn/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
rp_zone	

canonical

`canonical`

The canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_ipv4

is_ipv4

Indicates whether the record is an IPv4 record. If the return value is “true”, it is an IPv4 record. Otherwise, it is an IPv6 record.

Type

Bool.

Search

The field is not available for search.

Notes

The is_ipv4 cannot be updated.

is_ipv4 cannot be written.

name

name

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
is_ipv4	Bool	N	Y	N	N/A
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:rpz:cname:ipaddress : DNS RPZ CNAMEIpAddress record object.
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- Restrictions
- Fields
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  - comment
  - disable
  - extattrs
  - is_ipv4
  - name
  - rp_zone
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:cname:clientipaddressdn : Substitute Domain Name Based on Client IP Address rule object.

Next topic

record:rpz:cname:ipaddressdn : Substitute Domain Name Based on IP Address rule object.

record:rpz:cname:ipaddress : DNS RPZ CNAMEIpAddress record object.

A DNS RPZ CNAMEIpAddress record represents different RPZ rules, depending on the value of the canonical name. This record represents Passthru IP Address Rule, Block IP Address (No Such Domain) Rule, Block IP Address (No Data) Rule.

This record represents IP trigger policy. It matches IP addresses that would otherwise appear in A and AAAA records in the “answer” section of DNS response.

If canonical name is empty, it is a Block IP Address (No Such Domain) Rule.

If canonical name is an asterisk, it is a Block IP Address (No Data) Rule.

If canonical name is the same as host name, it is a Passthru IP Address Rule.

You cannot create Substitute (IPv4/IPv6 Address) Rule for this record see AIpAddress or AAAAIpAddress for details.

Object Reference

References to record:rpz:cname:ipaddress are object references. The *name* part of a RPZ CNAMEIpAddress object reference has the following components:

- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25h:some.name.com/myview
# Using UUID
record:rpz:cname:ipaddress/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
rp_zone	

canonical

`canonical`

The canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_ipv4

is_ipv4

Indicates whether the record is an IPv4 record. If the return value is “true”, it is an IPv4 record. Otherwise, it is an IPv6 record.

Type

Bool.

Search

The field is not available for search.

Notes

The is_ipv4 cannot be updated.

is_ipv4 cannot be written.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
is_ipv4	Bool	N	Y	N	N/A
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=

zone	String	N	Y	N	=

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rule object.

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record:rpz:cname:ipaddressdn : Substitute Domain Name Based on IP Address rule object.

- Object Reference
- Restrictions
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  - canonical
  - comment
  - disable
  - extattrs
  - is_ipv4
  - name
  - rp_zone
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:cname:ipaddress : DNS RPZ CNAMEIpAddress record object.

Next topic

record:rpz:https : Response Policy Zone Substitute HTTPS Record Rule object.

record:rpz:cname:ipaddressdn : Substitute Domain Name Based on IP Address rule object.

A DNS Substitute Domain Name (Based on IP Address) rule represents different Response Policy Zone (RPZ) rules, depending on the value of the canonical name.

This rule represents Substitute (Domain Name) Rule.

Object Reference

References to record:rpz:cname:ipaddressdn are object references. The *name* part of a Substitute Domain Name (Based on IP Address) rule object reference has the following components:

- Name of the record
- Name of the view

Example (using _ref or UUID):

```
# Using _ref
record:rpz:cname:ipaddressdn/ZG5zLmJpbmRfY25h:some.name.com/myview
# Using UUID
record:rpz:cname:ipaddressdn/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, uuid, view**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
rp_zone	

canonical

`canonical`

The canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

is_ipv4

`is_ipv4`

Indicates whether the record is an IPv4 record. If the return value is “true”, it is an IPv4 record. Otherwise, it is an IPv6 record.

Type

Bool.

Search

The field is not available for search.

Notes

The is_ipv4 cannot be updated.

is_ipv4 cannot be written.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
is_ipv4	Bool	N	Y	N	N/A
name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Table of Contents

record:rpz:https : Response Policy Zone Substitute HTTPS Record Rule object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - extattrs
  - name
  - priority
  - rp_zone
  - svc_parameters
  - target_name
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:cname:ipaddressdn : Substitute Domain Name Based on IP Address rule object.

Next topic

record:rpz:mx : Response Policy Zone Substitute MX Record Rule object.

record:rpz:https : Response Policy Zone Substitute HTTPS Record Rule object.

An RPZ Substitute (HTTPS Record) Rule object represents the substitution rule for DNS HTTPS records.

Object Reference

References to record:rpz:https are object references. The *name* part of a Substitute (HTTPS Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:https/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:https/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, priority, target_name, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
priority	
rp_zone	
target_name	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when

updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

priority

`priority`

The priority of the Substitute (HTTPS Record) Rule. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The priority is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

svc_parameters

`svc_parameters`

Structure to represent SVC Params.

Type

A/An Svc Params structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

target_name

`target_name`

The target of the Substitute (HTTPS Record) Rule in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The target_name is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
priority	Unsigned int	Y	N	Y	< = >
rp_zone	String	Y	N	N	N/A
svc_parameters	[struct]	N	N	N	N/A
target_name	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:rpz:mx : Response Policy Zone Substitute MX Record Rule object.
- Object Reference
- Restrictions
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  - disable
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  - mail_exchanger
  - name
  - preference
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  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:https : Response Policy Zone Substitute HTTPS Record Rule object.

Next topic

record:rpz:naptr : Response Policy Zone Substitute NAPTR Record Rule object.

record:rpz:mx : Response Policy Zone Substitute MX Record Rule object.

An RPZ Substitute (MX Record) Rule maps a domain name to a mail exchanger. A mail exchanger is a server that either delivers or forwards mail.

This record represents the substitution rule for DNS MX records.

Object Reference

References to record:rpz:mx are object references. The *name* part of an Substitute (MX Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:mx/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:mx/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **mail_exchanger, name, preference, uuid, view**.

The following fields are required to create this object:

Field	Notes
mail_exchanger	
name	

preference
rp_zone

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

mail_exchanger

`mail_exchanger`

Mail exchanger name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mail_exchanger is part of the base object.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

preference

`preference`

Preference value, 0 to 65535 (inclusive) in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The preference is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the

default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
mail_exchanger	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
preference	Unsigned int	Y	N	Y	< = >
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:rpz:naptr : Response Policy Zone Substitute NAPTR Record Rule object.
- Object Reference
- Restrictions
- Fields
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  - disable
  - extattrs
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  - name
  - order
  - preference
  - regexp
  - replacement
  - rp_zone
  - services
  - ttl
  - use_ttl
  - uuid
  - view
  - zone
- Fields List

Previous topic

record:rpz:mx : Response Policy Zone Substitute MX Record Rule object.

Next topic

record:rpz:ptr : Response Policy Zone Substitute PTR Record Rule object.

record:rpz:naptr : Response Policy Zone Substitute NAPTR Record Rule object.

An RPZ Substitute (NAPTR Record) Rule object represents the substitution rule for DNS Naming Authority Pointer (NAPTR) records. This rule specifies a regular expression-based rewrite rule that, when applied to an existing string, produces a new domain name or URI.

Object Reference

References to record:rpz:naptr are object references. The *name* part of a Substitute (PTR Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:naptr/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:naptr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, order, preference, regexp, replacement, services, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
order	
preference	

replacement

rp_zone

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

flags

`flags`

The flags used to control the interpretation of the fields for a Substitute (NAPTR Record) Rule object. Supported values for the flags field are “U”, “S”, “P” and “A”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

name

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

order

order

The order parameter of the Substitute (NAPTR Record) Rule records. This parameter specifies the order in which the NAPTR rules are applied when multiple rules are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The order is part of the base object.

preference

`preference`

The preference of the Substitute (NAPTR Record) Rule record. The preference field determines the order NAPTR records are processed when multiple records with the same order parameter are present. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The preference is part of the base object.

regexp

`regexp`

The regular expression-based rewriting rule of the Substitute (NAPTR Record) Rule record. This should be a POSIX compliant regular expression, including the substitution rule and flags. Refer to RFC 2915 for the field syntax details.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is not available for search.

Notes

The regexp is part of the base object.

replacement

`replacement`

The replacement field of the Substitute (NAPTR Record) Rule object. For nonterminal NAPTR records, this field specifies the next domain name to look up. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The replacement is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

services

`services`

The services field of the Substitute (NAPTR Record) Rule object;

maximum 128 characters. The services field contains protocol and service identifiers, such as “http+E2U” or “SIPS+D2T”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *An empty string*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The services is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
flags	String	N	N	N	: = ~
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
order	Unsigned int	Y	N	Y	< = >
preference	Unsigned int	Y	N	Y	< = >
regexp	String	N	N	Y	N/A
replacement	String	Y	N	Y	= ~
rp_zone	String	Y	N	N	N/A
services	String	N	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=

zone	String	N	Y	N	=

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record:rpz:srv : Response Policy Zone Substitute SRV Record Rule object.

record:rpz:ptr : Response Policy Zone Substitute PTR Record Rule object.

An RPZ Substitute (PTR Record) Rule object represents a Pointer (PTR) resource record. To define a specific address-to-name mapping, add an RPZ Substitute (PTR Record) Rule to a previously defined Response Policy Zone.

This record represents the substitution rule for DNS PTR records.

Object Reference

References to record:rpz:ptr are object references. The *name* part of an Substitute (PTR Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:ptr/ZG5zLmJpsaG9zdA:1.0.0.127.in-addr.arpa/external

# Using UUID
record:rpz:ptr/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ptrdname, uuid, view**.

The following fields are required to create this object:

Field	Notes
ipv4addr	The field is required only for an IPv4 PTR object.
ipv6addr	The field is required only for an IPv6 PTR object.
name	See the field description for more information
ptrdname	
rp_zone	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4addr

`ipv4addr`

The IPv4 Address of the substitute rule.

Type

String.

Create

The field is required only for an IPv4 PTR object.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

ipv6addr

`ipv6addr`

The IPv6 Address of the substitute rule.

Type

String.

Create

The field is required only for an IPv6 PTR object.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

name

`name`

The name of the RPZ Substitute (PTR Record) Rule object in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only for an PTR object in Forward Mapping Zone.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ptrdname

`ptrdname`

The domain name of the RPZ Substitute (PTR Record) Rule object in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The ptrdname is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search

comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ipv4addr	String	Y*	N	N	= ~
ipv6addr	String	Y*	N	N	= ~
name	String	Y*	N	N	: = ~
ptrdname	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

* Required in some cases, see detailed field description above.

Record Rule object.

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record:rpz:srv : Response Policy Zone Substitute SRV Record Rule object.
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Previous topic

record:rpz:ptr : Response Policy Zone Substitute PTR Record Rule object.

Next topic

record:rpz:svcb : Response Policy Zone Substitute SVCB Record Rule object.

record:rpz:srv : Response Policy Zone Substitute SRV Record Rule object.

An RPZ Substitute (SRV Record) Rule object represents the substitution rule for DNS SRV records.

Object Reference

References to record:rpz:srv are object references. The *name* part of a Substitute (SRV Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:srv/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:srv/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, port, priority, target, uuid, view, weight**.

The following fields are required to create this object:

Field	Notes
name	
port	
priority	
rp_zone	

target
weight

comment

comment

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

port

`port`

The port of the Substitute (SRV Record) Rule. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The port is part of the base object.

priority

`priority`

The priority of the Substitute (SRV Record) Rule. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The priority is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

target

`target`

The target of the Substitute (SRV Record) Rule in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The target is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

weight

`weight`

The weight of the Substitute (SRV Record) Rule. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The weight is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
port	Unsigned int	Y	N	Y	=
priority	Unsigned int	Y	N	Y	< = >
rp_zone	String	Y	N	N	N/A
target	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
weight	Unsigned int	Y	N	Y	< = >
zone	String	N	Y	N	=

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record:rpz:svcb : Response Policy Zone Substitute SVCB Record Rule object.
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Previous topic

record:rpz:srv : Response Policy Zone Substitute SRV Record Rule object.

Next topic

record:rpz:txt : Response Policy Zone Substitute TXT Record Rule object.

record:rpz:svcb : Response Policy Zone Substitute SVCB Record Rule object.

An RPZ Substitute (SVCB Record) Rule object represents the substitution rule for DNS SVCB records.

Object Reference

References to record:rpz:svcb are object references. The *name* part of a Substitute (SVCB Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:svcb/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:svcb/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, priority, target_name, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
priority	
rp_zone	
target_name	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

priority

`priority`

The priority of the Substitute (SVCB Record) Rule. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The priority is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

svc_parameters

`svc_parameters`

Structure to represent SVC Params.

Type

A/An Svc Params structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

target_name

`target_name`

The target of the Substitute (SVCB Record) Rule in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The target_name is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
priority	Unsigned int	Y	N	Y	< = >
rp_zone	String	Y	N	N	N/A
svc_parameters	[struct]	N	N	N	N/A
target_name	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:rpz:txt : Response Policy Zone Substitute TXT Record Rule object.
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Previous topic

record:rpz:svcb : Response Policy Zone Substitute SVCB Record Rule object.

Next topic

record:rrsig : DNS RRSIG record object.

record:rpz:txt : Response Policy Zone Substitute TXT Record Rule object.

An RPZ Substitute (TXT Record) Rule object represents the substitution rule for DNS TXT records.

Object Reference

References to record:rpz:txt are object references. The *name* part of a Substitute (TXT Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:rpz:txt/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

# Using UUID
record:rpz:txt/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, text, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
rp_zone	
text	

comment

`comment`

The comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

rp_zone

`rp_zone`

The name of a response policy zone in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

text

`text`

Text associated with the record. It can contain up to 255 bytes per substring, up to a total of 512 bytes. To enter leading, trailing, or embedded spaces in the text, add quotes around the text to preserve the spaces.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The text is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example:

“external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext

name	String	Y	N	Y	: = ~
rp_zone	String	Y	N	N	N/A
text	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

Rule object.

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Previous topic

record:rpz:txt : Response Policy Zone Substitute TXT Record Rule object.

Next topic

record:srv : DNS SRV record object.

record:rrsig : DNS RRSIG record object.

RRSIG records are one of the resource records in DNSSEC. These records store digital signatures of resource record sets (RRsets). Digital signatures are used to authenticate data that is in the signed RRsets.

A signed zone has multiple RRsets, one for each record type and owner name. (The owner is the domain name of the RRset.) When an authoritative name server uses the private key of the ZSK pair to sign each RRset in a zone, the digital signature on each RRset is stored in an RRSIG record. Therefore, a signed zone contains an RRSIG record for each RRset.

RRSIG resource records are defined in RFC 4034.

RRSIG records are automatically generated upon the signing of an authoritative zone.

The *name* part of a DNS RRSIG object reference has the following components:

- The name of the record.
- The name of the view.

Example:

```
# Using _ref
record:rrsig/ZG5zLmJpsaG9zdA:us.example.com/default.external

# Using UUID
record:rrsig/123e4567e89b12d3a456426614174000
```

Object Reference

References to record:rrsig are object references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

algorithm

`algorithm`

The cryptographic algorithm that was used to create the signature. It uses the same algorithm types as the DNSKEY record indicated in the key tag field.

Type

String.

Valid values are:

- DSA
- ECDSAP256SHA256
- ECDSAP384SHA384
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512

Search

The field is available for search via

- '=' (exact equality)

Notes

The algorithm cannot be updated.

algorithm cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

creation_time

`creation_time`

The creation time of the record.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The creator cannot be updated.

creator cannot be written.

dns_name

dns_name

Name for an RRSIG record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_signer_name

dns_signer_name

The domain name, in punycode format, of the zone that contains the signed RRset.

Type

String.

Search

The field is not available for search.

Notes

The dns_signer_name cannot be updated.

dns_signer_name cannot be written.

expiration_time

expiration_time

The expiry time of an RRSIG record in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The expiration_time cannot be updated.

expiration_time cannot be written.

inception_time

`inception_time`

The inception time of an RRSIG record in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The inception_time cannot be updated.

inception_time cannot be written.

key_tag

`key_tag`

The key tag value of the DNSKEY RR that validates the signature.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The key_tag cannot be updated.

key_tag cannot be written.

labels

`labels`

The number of labels in the name of the RRset signed with the RRSIG object.

Type

Unsigned integer.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The labels cannot be updated.

labels cannot be written.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name of the RRSIG record in FQDN format.

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

original_ttl

`original_ttl`

The TTL value of the RRset covered by the RRSIG record.

Type

Unsigned integer.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The original_ttl cannot be updated.

original_ttl cannot be written.

signature

`signature`

The Base64 encoded cryptographic signature that covers the RRSIG RDATA of the RRSIG Record object.

Type

String.

Search

The field is not available for search.

Notes

The signature cannot be updated.

signature cannot be written.

signer_name

`signer_name`

The domain name of the zone in FQDN format that contains the signed RRset.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The signer_name cannot be updated.

signer_name cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

The ttl cannot be updated.

ttl cannot be written.

type_covered

`type_covered`

The RR type covered by the RRSIG record.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The type_covered cannot be updated.

type_covered cannot be written.

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Search

The field is not available for search.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

zone

`zone`

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
algorithm	String	N	Y	N	=
cloud_info	struct	N	Y	N	N/A
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
dns_signer_name	String	N	Y	N	N/A
expiration_time	Timestamp	N	Y	N	N/A
inception_time	Timestamp	N	Y	N	N/A
key_tag	Unsigned int	N	Y	N	< = >
labels	Unsigned int	N	Y	N	< = >
last_queried	Timestamp	N	Y	N	N/A
name	String	N	Y	Y	: = ~
original_ttl	Unsigned int	N	Y	N	< = >
signature	String	N	Y	N	N/A
signer_name	String	N	Y	N	: = ~
ttl	Unsigned int	N	Y	N	N/A
type_covered	String	N	Y	N	: = ~
use_ttl	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	Y	Y	=
zone	String	N	Y	N	=

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Previous topic

record:rrsig : DNS RRSIG record object.

Next topic

record:svcb : DNS SVCB record object.

record:srv : DNS SRV record object.

A DNS SRV object represents an SRV resource record, which is also known as a service record. An SRV record provides information on available services.

Object Reference

References to record:srv are object references. The *name* part of an SRV record object reference has the following components:

- Name of the SRV record
- Name of the view

Example:

```
# Using _ref
record:srv/ZzEwLzgwL2F6:test.az/default.external

# Using UUID
record:srv/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, port, priority, target, uuid, view, weight**.

The following fields are required to create this object:

Field	Notes
name	
port	
priority	
target	
weight	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for an SRV record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_target

`dns_target`

The name for a SRV record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_target cannot be updated.

dns_target cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

A name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

port

`port`

The port of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The port is part of the base object.

priority

`priority`

The priority of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)

Notes

The priority is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

target

`target`

The target of the SRV record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The target is part of the base object.

ttl

`ttl`

The Time to Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

weight

`weight`

The weight of the SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The weight is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A

dns_target	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
port	Unsigned int	Y	N	Y	=
priority	Unsigned int	Y	N	Y	< = >
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
target	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
weight	Unsigned int	Y	N	Y	< = >
zone	String	N	Y	N	=

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Previous topic

record:srv : DNS SRV record object.

Next topic

record:tlsa : DNS TLSA record object.

record:svcb : DNS SVCB record object.

The SVCB DNS RR type (RR type 64) is used to locate alternative endpoints for a service. For further details see RFC-9460.

Object Reference

References to record:svcb are object references. The *name* part of a SVCB record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:svcb/ZG5zLmJpbmRfY2FN1ZXIxLm9yZw:svcb_example.com/default

# Using UUID record:svcb/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, priority, target_name, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
priority	
target_name	

aws_rte53_record_info

`aws_rte53_record_info`

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to ‘SYSTEM’ value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- ‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not.False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The name for a SVCB record in FQDN format. This value can be in unicode format. Regular expression search is not supported for unicode values.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

priority

`priority`

The priority of the SVCB record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The priority is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

svc_parameters

`svc_parameters`

Structure to represent SVC Params.

Type

A/An Svc Params structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

target_name

`target_name`

Target name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The target_name is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
priority	Unsigned int	Y	N	Y	< = >
reclaimable	Bool	N	Y	N	=
svc_parameters	[struct]	N	N	N	N/A
target_name	String	Y	N	Y	: = ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

view	String	N	N	Y	=
zone	String	N	Y	N	=

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- Fields List

Previous topic

record:svcb : DNS SVCB record object.

Next topic

record:txt : DNS TXT record object.

record:tlsa : DNS TLSA record object.

The TLSA DNS resource record (RR) is used to associate a TLS server certificate or public key with the domain name where the record is found, thus forming a 'TLSA certificate association'. For further details see RFC-6698. Note that you must specify only one view for the attribute 'views'.

Object Reference

References to record:tlsa are object references. The *name* part of a TLSA record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:tlsa/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

# Using UUID record:tlsa/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

The following fields are required to create this object:

Field	Notes
certificate_data	
certificate_usage	
matched_type	
name	
selector	

certificate_data

`certificate_data`

Hex dump of either raw data for matching type 0, or the hash of the raw data for matching types 1 and 2.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

certificate_usage

`certificate_usage`

Specifies the provided association that will be used to match the certificate presented in the TLS handshake. Based on RFC-6698.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creator

`creator`

The record creator. Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

dns_name

The name of the TLSA record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

last_queried

last_queried

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

matched_type

`matched_type`

Specifies how the certificate association is presented. Based on RFC-6698.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The TLSA record name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

selector

`selector`

Specifies which part of the TLS certificate presented by the server will be matched against the association data. Based on RFC-6698.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is not available for search.

ttl

`ttl`

The Time to Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

`zone`

The name of the zone in which the record resides. Example:

“zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
certificate_data	String	Y	N	N	N/A
certificate_usage	Unsigned int	Y	N	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creator	String	N	N	N	=
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
last_queried	Timestamp	N	Y	N	N/A
matched_type	Unsigned int	Y	N	N	N/A
name	String	Y	N	Y	: = ~
selector	Unsigned int	Y	N	N	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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record:txt : DNS TXT record object.
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- Fields List

Previous topic

record:tlsa : DNS TLSA record object.

Next topic

record:unknown : DNS UNKNOWN record object.

record:txt : DNS TXT record object.

A TXT (text record) record contains supplemental information for a host. For example, if you have a sales server that serves only North America, you can create a text record stating this fact. You can create more than one text record for a domain name.

Object Reference

References to record:txt are object references. The *name* part of a TXT record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref
record:txt/ZG5zLmJpbmRfdHh0U2Ig:txt.wtest.foo.bar/external

# Using UUID
record:txt/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, text, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
text	

aws_rte53_record_info

aws_rte53_record_info

Aws Route 53 record information.

Type

A/An 'Aws Rte53 Record Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_record_info cannot be updated.

aws_rte53_record_info cannot be written.

cloud_info

cloud_info

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

comment

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creation_time

`creation_time`

The time of the record creation in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The creation_time cannot be updated.

creation_time cannot be written.

creator

`creator`

The record creator.

Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

‘=’ (exact equality)

ddns_principal

`ddns_principal`

The GSS-TSIG principal that owns this record.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

ddns_protected

`ddns_protected`

Determines if the DDNS updates for this record are allowed or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for a TXT record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

forbid_reclamation

`forbid_reclamation`

Determines if the reclamation is allowed for the record or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

Name for the TXT record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

reclaimable

`reclaimable`

Determines if the record is reclaimable or not.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The reclaimable cannot be updated.

reclaimable cannot be written.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides. This field exists only on db_objects if this record is a shared record.

Type

String.

Search

The field is not available for search.

Notes

The shared_record_group cannot be updated.

shared_record_group cannot be written.

text

`text`

Text associated with the record. It can contain up to 255 bytes per substring, up to a total of 512 bytes. To enter leading, trailing, or embedded spaces in the text, add double quotes (\" \") around the text to preserve the spaces.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The text is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: "zone.com". If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
aws_rte53_record_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~

creation_time	Timestamp	N	Y	N	N/A
creator	String	N	N	N	=
ddns_principal	String	N	N	N	: = ~
ddns_protected	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
forbid_reclamation	Bool	N	N	N	N/A
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
reclaimable	Bool	N	Y	N	=
shared_record_group	String	N	Y	N	N/A
text	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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- Fields List

Previous topic

record:txt : DNS TXT record object.

Next topic

recordnamepolicy : Record name policy object.

record:unknown : DNS UNKNOWN record object.

An “RR of unknown type” is an RR whose RDATA format is not known to the DNS implementation at hand, and whose type is not an assigned QTYPE or Meta-TYPE as specified in 2929] nor within the range reserved in that section for assignment only to QTYPEs and Meta-TYPEs. The purpose of the Unknown resource record is to allow future DNS implementations to handle new RR types transparently. For further details see RFC-3597.

Object Reference

References to record:unknown are object references. The *name* part of a UNKNOWN record object reference has the following components:

- Name of the record
- Name of the view

Example:

```
# Using _ref record:unknown/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

# Using UUID record:unknown/123e4567e89b12d3a456426614174000
```

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid, view**.

The following fields are required to create this object:

Field	Notes
name	
record_type	
subfield_values	

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

creator

`creator`

The record creator. Note that changing creator from or to 'SYSTEM' value is not allowed.

Type

String.

Valid values are:

- DYNAMIC
- STATIC
- SYSTEM

Create

The default value is *STATIC*.

Search

The field is available for search via

- '=' (exact equality)

disable

`disable`

Determines if the record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_rdata

`display_rdata`

Standard textual representation of the RDATA.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The display_rdata cannot be updated.

display_rdata cannot be written.

dns_name

`dns_name`

The name of the unknown record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

enable_host_name_policy

`enable_host_name_policy`

Determines if host name policy is applicable for the record.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

last_queried

`last_queried`

The time of the last DNS query in Epoch seconds format.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

name

`name`

The Unknown record name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

policy

`policy`

The host name policy for the record.

Type

String.

Search

The field is not available for search.

Notes

The policy cannot be updated.

policy cannot be written.

record_type

`record_type`

Specifies type of unknown resource record.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

subfield_values

`subfield_values`

The list of rdata subfield values of unknown resource record.

Type

A/An Unknown Record Rdata subfield value struct array.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

ttl

`ttl`

The Time to Live (TTL) value for the record. A 32-bit unsigned integer that represents the duration, in seconds, for which the record is valid (cached). Zero indicates that the record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the record resides. Example: "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone

zone

The name of the zone in which the record resides. Example: “zone.com”. If a view is not specified when searching by zone, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone cannot be updated.

zone cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
creator	String	N	N	N	=
disable	Bool	N	N	N	N/A
display_rdata	String	N	Y	N	=
dns_name	String	N	Y	N	N/A
enable_host_name_policy	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
last_queried	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
policy	String	N	Y	N	N/A
record_type	String	Y	N	N	=
subfield_values	[struct]	Y	N	N	=
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone	String	N	Y	N	=

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Next topic

request : WAPI handler object.

recordnamepolicy : Record name policy object.

You can enforce naming policy for the hostnames of A, AAAA, Host, MX, NS and bulk host records based on user-defined or default patterns. For MX and NS records, the hostname restrictions apply to the text in the RDATA field of the resource record name. Records that you created before you enabled the hostname checking policy need not to comply with the hostname restriction that you specify.

The record name policy object contains configuration of the regular expression hostnames should comply with.

Object Reference

References to recordnamepolicy are object references.

The *name* part of the record name policy object reference has following components:

- The name of the record name policy object.

Example (using _ref or UUID):

```
# Using _ref recordnamepolicy/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:Default

# Using UUID recordnamepolicy/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **is_default, name, regex, uuid**.

The following fields are required to create this object:

Field	Notes
name	
regex	

is_default

`is_default`

Determines whether the record name policy is Grid default.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The is_default is part of the base object.

name

`name`

The name of the record name policy object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pre_defined

`pre_defined`

Determines whether the record name policy is a predefined one.

Type

Bool.

Search

The field is not available for search.

Notes

The pre_defined cannot be updated.

pre_defined cannot be written.

regex

`regex`

The POSIX regular expression the record names should match in order to comply with the record name policy.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The regex is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
is_default	Bool	N	N	Y	N/A
name	String	Y	N	Y	: = ~
pre_defined	Bool	N	Y	N	N/A
regex	String	Y	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

restartservicestatus : Restart service status object.
- Object Reference
- Restrictions
- Fields
  - dhcp_status
  - dns_status
  - member
  - reporting_status
  - uuid
- Fields List

Previous topic

request : WAPI handler object.

Next topic

rir : Regional Internet Registry object.

restartservicestatus : Restart service status object.

This object represents the service status. Use the the requestrestartservicestatus function call in object grid or the requestrestartservicestatus function call in object member to refresh the status.

Object Reference

This object does not support references.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **dhcp_status, dns_status, member, reporting_status, uuid**.

dhcp_status

`dhcp_status`

The status of the DHCP service.

Type

String.

Valid values are:

- CONFIG_ERROR
- DISABLED

- NO
- NO_PERMISSION
- NO_REQUEST
- OFFLINE
- REQUESTING
- RESTART_PENDING
- YES

Search

The field is not available for search.

Notes

The dhcp_status is part of the base object.

The dhcp_status cannot be updated.

dhcp_status cannot be written.

dns_status

`dns_status`

The status of the DNS service.

Type

String.

Valid values are:

- CONFIG_ERROR
- DISABLED
- NO
- NO_PERMISSION
- NO_REQUEST
- OFFLINE
- REQUESTING
- RESTART_PENDING
- YES

Search

The field is not available for search.

Notes

The dns_status is part of the base object.

The dns_status cannot be updated.

dns_status cannot be written.

member

member

The name of this Grid member in FQDN format.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

reporting_status

reporting_status

The status of the reporting service.

Type

String.

Valid values are:

- CONFIG_ERROR
- DISABLED
- NO
- NO_PERMISSION
- NO_REQUEST
- OFFLINE
- REQUESTING
- RESTART_PENDING
- YES

Search

The field is not available for search.

Notes

The reporting_status is part of the base object.

The reporting_status cannot be updated.

reporting_status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
dhcp_status	String	N	Y	Y	N/A
dns_status	String	N	Y	Y	N/A
member	String	N	Y	Y	=
reporting_status	String	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

rir : Regional Internet Registry object.
- Object Reference
- Restrictions
- Fields
  - communication_mode
  - email
  - name
  - url
  - use_email
  - use_url
  - uuid
- Fields List

Previous topic

restartservicestatus : Restart service status object.

Next topic

rir:organization : Regional Internet Registry organization object.

rir : Regional Internet Registry object.

An RIR is an entity that manages the Internet number resources, which include IP addresses and autonomous system numbers, within a specific region of the world. RIRs use SWIP (Shared WHOIS Project) or RWhois (Referral WHOIS) servers to provide address allocation information for IP address blocks. Typically, an RIR determines the address blocks to be allocated for specific organizations (typically ISPs), while an ISP manages the allocated address blocks, associated organizations and corresponding RIR registrations. An organization can determine when to request for more address data with their RIRs every few months.

The RIR object is used to configure Infoblox Grid communication settings to send registration update to RIPE (Reseaux IP Europeens) database as often as RIR data is updated on NIOS.

Object Reference

References to rir are object references.

The *name* part of the rir object reference has the following components:

- The name of the RIR

Example:

```
# Using _ref rir/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:RIPE

# Using UUID rir/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **communication_mode, email, name, url, uuid**.

communication_mode

`communication_mode`

The communication mode for RIR.

Type

String.

Valid values are:

- API
- EMAIL
- NONE

Create

The default value is *API*.

Search

The field is not available for search.

Notes

The communication_mode is part of the base object.

email

`email`

The e-mail address for RIR.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

email is associated with the field use_email (see use flag).

The email is part of the base object.

name

`name`

The name of RIR.

Type

String.

Valid values are:

RIPE

Create

The default value is *RIPE*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The name is part of the base object.

url

`url`

The WebAPI URL for RIR.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

url is associated with the field use_url (see use flag).

The url is part of the base object.

use_email

`use_email`

Use flag for: email

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_url

`use_url`

Use flag for: url

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
communication_mode	String	N	N	Y	N/A
email	String	N	N	Y	N/A
name	String	N	N	Y	=
url	String	N	N	Y	N/A
use_email	Bool	N	N	N	N/A
use_url	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

rir:organization : Regional Internet Registry organization object.
- Object Reference
- Restrictions
- Fields
  - extattrs
  - id
  - maintainer
  - name
  - password
  - rir
  - sender_email
  - uuid
- Fields List

Previous topic

rir : Regional Internet Registry object.

Next topic

roaminghost : DHCP Roaming Host object.

rir:organization : Regional Internet Registry organization object.

An RIR organization provides information about an entity that has registered a network resource in the RIPE database. This entity can be a company (such as an ISP), a nonprofit group, or an individual. You can add RIR organizations defined in the RIPE database and start managing their data through NIOS.

Object Reference

References to rir:organization are object references.

The *name* part of the rir:organization object reference has the following components:

- The name of Regional Internet Registry
- The RIR organization identifier
- The name of the RIR organization

Example (using _ref or UUID):

```
# Using _ref
rir/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:RIPE/ORG-MC2-RIPE/rir_org1

# Using UUID rir:organization/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **id, maintainer, name, rir, sender_email, uuid**.

The following fields are required to create this object:

Field	Notes
extattrs	
id	
maintainer	
name	
password	
rir	

sender_email

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The field is required on creation.

Search

For how to search extensible attributes, see the following information.

id

`id`

The RIR organization identifier.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The id is part of the base object.

maintainer

`maintainer`

The RIR organization maintainer.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The maintainer is part of the base object.

name

`name`

The RIR organization name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

password

`password`

The password for the maintainer of RIR organization.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

password is not readable.

rir

`rir`

The RIR associated with RIR organization.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The rir is part of the base object.

sender_email

`sender_email`

The sender e-mail address for RIR organization.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The sender_email is part of the base object.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
extattrs	Extattr	Y	N	N	ext
id	String	Y	N	Y	: = ~
maintainer	String	Y	N	Y	: = ~
name	String	Y	N	Y	: = ~
password	String	Y	N	N	N/A
rir	String	Y	N	Y	=
sender_email	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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Table of Contents

- roaminghost : DHCP Roaming Host object.
  - Object Reference
  - Restrictions
  - Fields
    - address_type
    - bootfile
    - bootserver
    - client_identifier_prepend_zero
    - comment
    - ddns_domainname
    - ddns_hostname
    - deny_bootp
    - dhcp_client_identifier
    - disable
    - enable_ddns
    - enable_pxe_lease_time
    - extattrs
    - force_roaming_hostname
    - ignore_dhcp_option_list_request
    - ipv6_client_hostname
    - ipv6_ddns_domainname
    - ipv6_ddns_hostname
    - ipv6_domain_name
    - ipv6_domain_name_servers
    - ipv6_duid
    - ipv6_enable_ddns
    - ipv6_force_roaming_hostname
    - ipv6_mac_address
    - ipv6_match_option
    - ipv6_options
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    - mac
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    - options
    - preferred_lifetime
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    - template
    - use_bootfile
    - use_bootserver
    - use_ddns_domainname
    - use_deny_bootp
    - use_enable_ddns
    - use_ignore_dhcp_option_list_request
    - use_ipv6_ddns_domainname
    - use_ipv6_domain_name
    - use_ipv6_domain_name_servers

roaminghost : DHCP Roaming Host object.

A roaming host is a specific host that a DHCP server always assigns when a lease request comes from a particular MAC address of the client.

Object Reference

References to roaminghost are object references.

The *name* part of the roaming host object reference has the following components:

- Name of the roaming host
- Name of the network view

Example (using _ref or UUID):

```
# Using _ref roaminghost/ZG5zLmJpbmRfY25h:somerhost/external

# Using UUID roaminghost/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **address_type, name, network_view, uuid**.

The following fields are required to create this object:

Field	Notes
dhcp_client_identifier	See the field description for more information
ipv6_duid	See the field description for more information
ipv6_mac_address	See the field description for more information
mac	See the field description for more information
match_client	See the field description for more information
name	

address_type

`address_type`

The address type for this roaming host.

Type

String.

Valid values are:

- BOTH
- IPV4
- IPV6

Create

The default value is *IPV4*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The address_type is part of the base object.

bootfile

`bootfile`

The bootfile name for the roaming host. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The boot server address for the roaming host. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

client_identifier_prepend_zero

`client_identifier_prepend_zero`

This field controls whether there is a prepend for the dhcp-client-identifier of a roaming host.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

comment

`comment`

Comment for the roaming host; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ddns_domainname

`ddns_domainname`

The DDNS domain name for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_domainname is associated with the field use_ddns_domainname (see use flag).

ddns_hostname

`ddns_hostname`

The DDNS host name for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

deny_bootp

`deny_bootp`

If set to true, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

dhcp_client_identifier

`dhcp_client_identifier`

The DHCP client ID for the roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to CLIENT_ID.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines whether a roaming host is disabled or not. When this is set to False, the roaming host is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of the roaming host object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

force_roaming_hostname

`force_roaming_hostname`

Set this to True to use the roaming host name as its ddns_hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all the DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ipv6_client_hostname

`ipv6_client_hostname`

The client hostname of a DHCP roaming host object. This field specifies the host name that the DHCP client sends to the Infoblox appliance using DHCP option 12.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ipv6_client_hostname cannot be updated.

ipv6_client_hostname cannot be written.

ipv6_ddns_domainname

`ipv6_ddns_domainname`

The IPv6 DDNS domain name for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_ddns_domainname is associated with the field use_ipv6_ddns_domainname (see use flag).

ipv6_ddns_hostname

`ipv6_ddns_hostname`

The IPv6 DDNS host name for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

ipv6_domain_name

`ipv6_domain_name`

The IPv6 domain name for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_domain_name is associated with the field use_ipv6_domain_name (see use flag).

ipv6_domain_name_servers

`ipv6_domain_name_servers`

The IPv6 addresses of DNS recursive name servers to which the DHCP client can send name resolution requests. The DHCP server includes this information in the DNS Recursive Name Server option in Advertise, Rebind, Information-Request, and Reply messages.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ipv6_domain_name_servers is associated with the field use_ipv6_domain_name_servers (see use flag).

ipv6_duid

`ipv6_duid`

The DUID value for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when ipv6_match_option is set to DUID.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ipv6_enable_ddns

ipv6_enable_ddns

Set this to True to enable IPv6 DDNS.

Type

Bool.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ipv6_enable_ddns is associated with the field use_ipv6_enable_ddns (see use flag).

ipv6_force_roaming_hostname

ipv6_force_roaming_hostname

Set this to True to use the roaming host name as its ddns_hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv6_mac_address

ipv6_mac_address

The MAC address for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when ipv6_match_option is set to V6_MAC_ADDRESS.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

ipv6_match_option

ipv6_match_option

The identification method for an IPv6 or mixed IPv4/IPv6 roaming host. The supported values for this field are "DUID" or "V6_MAC_ADDRESS", which specify what option should be used to identify the specific DHCPv6 client.

Type

String.

Valid values are:

- DUID
- V6_MAC_ADDRESS

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

ipv6_options

ipv6_options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

ipv6_options is associated with the field use_ipv6_options (see use flag).

ipv6_template

`ipv6_template`

If set on creation, the roaming host will be created according to the values specified in the named IPv6 roaming host template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The ipv6_template cannot be updated.

ipv6_template is not readable.

mac

`mac`

The MAC address for this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when match_client is set to its default value - MAC_ADDRESS.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

match_client

`match_client`

The match-client value for this roaming host. Valid values are:

"MAC_ADDRESS": The fixed IP address is leased to the matching MAC address.

"CLIENT_ID": The fixed IP address is leased to the matching DHCP client

identifier.

Type

String.

Valid values are:

- CLIENT_ID
- MAC_ADDRESS

Create

The field is required only when address_type is set to “ipv4” or “both”.

Search

The field is available for search via

- ‘=’ (exact equality)

name

`name`

The name of this roaming host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view in which this roaming host resides.

Type

String.

Create

The default value is *The default network view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address format of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

`options`

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

preferred_lifetime

`preferred_lifetime`

The preferred lifetime value for this roaming host object.

Type

Unsigned integer.

Create

The default value is *27000*.

Search

The field is not available for search.

Notes

preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).

pxe_lease_time

`pxe_lease_time`

The PXE lease time value for this roaming host object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

template

`template`

If set on creation, the roaming host will be created according to the values specified in the named template.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The template cannot be updated.

template is not readable.

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_domainname

`use_ddns_domainname`

Use flag for: ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

`use_ignore_dhcp_option_list_request`

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_ddns_domainname

use_ipv6_ddns_domainname

Use flag for: ipv6_ddns_domainname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_domain_name

use_ipv6_domain_name

Use flag for: ipv6_domain_name

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_domain_name_servers

use_ipv6_domain_name_servers

Use flag for: ipv6_domain_name_servers

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_enable_ddns

use_ipv6_enable_ddns

Use flag for: ipv6_enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ipv6_options

use_ipv6_options

Use flag for: ipv6_options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_preferred_lifetime

`use_preferred_lifetime`

Use flag for: preferred_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

`use_pxe_lease_time`

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_valid_lifetime

`use_valid_lifetime`

Use flag for: valid_lifetime

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

valid_lifetime

`valid_lifetime`

The valid lifetime value for this roaming host object.

Type

Unsigned integer.

Create

The default value is *43200*.

Search

The field is not available for search.

Notes

valid_lifetime is associated with the field use_valid_lifetime (see use flag).

Fields List

Field	Type	Req	R/O	Base	Search
address_type	String	N	N	Y	=
bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
client_identifier_prepend_zero	Bool	N	N	N	N/A
comment	String	N	N	N	: = ~

ddns_domainname	String	N	N	N	N/A
ddns_hostname	String	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
dhcp_client_identifier	String	Y*	N	N	: = ~
disable	Bool	N	N	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
force_roaming_hostname	Bool	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ipv6_client_hostname	String	N	Y	N	N/A
ipv6_ddns_domainname	String	N	N	N	N/A
ipv6_ddns_hostname	String	N	N	N	N/A
ipv6_domain_name	String	N	N	N	N/A
ipv6_domain_name_servers	[String]	N	N	N	N/A
ipv6_duid	String	Y*	N	N	: = ~
ipv6_enable_ddns	Bool	N	N	N	N/A
ipv6_force_roaming_hostname	Bool	N	N	N	N/A
ipv6_mac_address	String	Y*	N	N	: = ~
ipv6_match_option	String	N	N	N	=
ipv6_options	[struct]	N	N	N	N/A
ipv6_template	String	N	N	N	N/A
mac	String	Y*	N	N	: = ~
match_client	String	Y*	N	N	=
name	String	Y	N	Y	: = ~
network_view	String	N	N	Y	=
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
preferred_lifetime	Unsigned int	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
template	String	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_domainname	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ipv6_ddns_domainname	Bool	N	N	N	N/A
use_ipv6_domain_name	Bool	N	N	N	N/A
use_ipv6_domain_name_servers	Bool	N	N	N	N/A
use_ipv6_enable_ddns	Bool	N	N	N	N/A
use_ipv6_options	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_preferred_lifetime	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_valid_lifetime	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
	Unsigned				

valid_lifetime	int	N	N	N	N/A

* Required in some cases, see detailed field description above.

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Table of Contents

ruleset : DNS Ruleset object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disabled
  - name
  - nxdomain_rules
  - type
  - uuid
- Fields List

Previous topic

roaminghost : DHCP Roaming Host object.

Next topic

saml:authservice : SAML authentication service object.

ruleset : DNS Ruleset object.

Represents a Ruleset object, which is a collection of rules that is used to match domain names.

Object Reference

References to ruleset are object references.

The *name* part of the ruleset object reference has the following components:

- Name of the Ruleset object
- Type of the Ruleset object

Example (using _ref or UUID):

```
# Using _ref
ruleset/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default/NXDOMAIN

# Using UUID
ruleset/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disabled, name, type, uuid**.

The following fields are required to create this object:

Field	Notes
name	
type	

comment

comment

Descriptive comment about the Ruleset object.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disabled

`disabled`

The flag that indicates if the Ruleset object is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The disabled is part of the base object.

name

`name`

The name of this Ruleset object.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

nxdomain_rules

`nxdomain_rules`

The list of Rules assigned to this Ruleset object. Rules can be set only when the Ruleset type is set to "NXDOMAIN".

Type

A/An Rule of Ruleset struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

type

`type`

The type of this Ruleset object.

Type

String.

Valid values are:

- BLACKLIST
- NXDOMAIN

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
disabled	Bool	N	N	Y	=
name	String	Y	N	Y	: = ~
nxdomain_rules	[struct]	N	N	N	N/A
type	String	Y	N	Y	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

saml:authservice : SAML authentication service object.
- Object Reference
- Restrictions
- Fields
  - comment
  - idp
  - name
  - session_timeout
  - uuid
- Fields List

Previous topic

ruleset : DNS Ruleset object.

Next topic

scavengingtask : DNS scavenging task object.

saml:authservice : SAML authentication service object.

This object represents SAML authentication service.

Object Reference

References to saml:authservice are object references. The *name* part of the SAML authentication service object reference has the following components:

- The name of the SAML authentication service object.

Example (using _ref or UUID):

```
# Using _ref
saml:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

# Using UUID
saml:authservice/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, uuid**.

The following fields are required to create this object:

Field	Notes
idp	
name	

comment

comment

The descriptive comment for the SAML authentication service.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

idp

`idp`

The SAML Identity Provider to use for authentication.

Type

A/An The SAML Identity Provider structure struct.

Create

The field is required on creation.

Search

The field is not available for search.

name

`name`

The name of the SAML authentication service.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

session_timeout

`session_timeout`

The session timeout in seconds.

Type

Unsigned integer.

Create

The default value is *1800*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
idp	struct	Y	N	N	N/A
name	String	Y	N	Y	: = ~
session_timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

scavengingtask : DNS scavenging task object.
- Object Reference
- Restrictions
- Fields
  - action
  - associated_object
  - end_time
  - processed_records
  - reclaimable_records
  - reclaimed_records
  - start_time
  - status
  - uuid
- Fields List

Previous topic

saml:authservice : SAML authentication service object.

Next topic

scheduledtask : Scheduled Task object.

scavengingtask : DNS scavenging task object.

The DNS scavenging task object provides information on scavenging process state.

Object Reference

References to scavengingtask are object references. The *name* part of a DNS scavenging task object reference has the following components:

- Task identifier

Example (using _ref or UUID):

```
# Using _ref
scavengingtask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1

# Using UUID
scavengingtask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **action, associated_object, status, uuid**.

action

`action`

The scavenging action.

Type

String.

Valid values are:

- ANALYZE
- ANALYZE_RECLAIM
- RECLAIM
- RESET

Search

The field is available for search via

- '=' (exact equality)

Notes

The action is part of the base object.

The action cannot be updated.

action cannot be written.

associated_object

`associated_object`

The reference to the object associated with the scavenging task.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The associated_object is part of the base object.

The associated_object cannot be updated.

associated_object cannot be written.

end_time

`end_time`

The scavenging process end time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The end_time cannot be updated.

end_time cannot be written.

processed_records

`processed_records`

The number of processed during scavenging resource records.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The processed_records cannot be updated.

processed_records cannot be written.

reclaimable_records

`reclaimable_records`

The number of resource records that are allowed to be reclaimed during the scavenging process.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The reclaimable_records cannot be updated.

reclaimable_records cannot be written.

reclaimed_records

`reclaimed_records`

The number of reclaimed during the scavenging process resource records.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The reclaimed_records cannot be updated.

reclaimed_records cannot be written.

start_time

`start_time`

The scavenging process start time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The start_time cannot be updated.

start_time cannot be written.

status

`status`

The scavenging process status. This is a read-only attribute.

Type

String.

Valid values are:

- COMPLETED
- CREATED
- ERROR
- RUNNING

Search

The field is available for search via

- '=' (exact equality)

Notes

The status is part of the base object.

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
action	String	N	Y	Y	=
associated_object	String	N	Y	Y	=
end_time	Timestamp	N	Y	N	N/A
processed_records	Unsigned int	N	Y	N	N/A

reclaimable_records	Unsigned int	N	Y	N	N/A
reclaimed_records	Unsigned int	N	Y	N	N/A
start_time	Timestamp	N	Y	N	N/A
status	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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search : Search object.
- Object Reference
- Restrictions
- Search-only Fields
  - address
  - duid
  - fqdn
  - mac_address
  - objtype
  - search_string
- Search-only Fields List

Previous topic

scheduledtask : Scheduled Task object.

Next topic

sharednetwork : DHCP Shared Network object.

search : Search object.

The **search** object is used to perform global searches for multiple object types in the database. This object contains only search parameters and returns objects that match the search criteria. The returned objects are base objects for the respective object types.

Search is the only allowed operation for **search** objects.

NOTE: Only one of the following can be used each time: ‘address’, ‘mac_address’, ‘duid’ or ‘fqdn’.

Object Reference

search objects are search only and will not be returned. They can not be referenced.

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

address

`address`

IP address is used as the search criterion.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

address is a search-only field.

duid

`duid`

DUID is used as the search criterion.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

duid is a search-only field.

fqdn

`fqdn`

FQDN is used as the search criterion. Note that the following special characters '{}', '[]', '()', and '+' are not supported in the regular expression for an FQDN pattern search.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

Notes

fqdn is a search-only field.

mac_address

mac_address

MAC address is used as the search criterion.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

mac_address is a search-only field.

objtype

objtype

Type of object to search for. If not specified, all object types will be searched.

Type

String.

Valid values are:

- All
- AllNetwork
- AllZone
- IPAMObjects
- ad_auth_service
- admingroup
- adminrole
- adminuser
- allendpoints
- allnsgroup
- approvalworkflow
- awsrte53taskgroup
- awsuser
- azurednstaskgroup
- azureuser
- bulkhost
- certificate:authservice
- ciscoise:notificationrule
- datacollectioncluster
- dhcpfailover
- dhcpoptionspace
- discovery:device
- discovery:deviceinterface

- discovery:memberproperties
- dns64group
- dtc:lbdn
- dtc:monitor:http
- dtc:monitor:icmp
- dtc:monitor:pdp
- dtc:monitor:sip
- dtc:monitor:snmp
- dtc:monitor:tcp
- dtc:pool
- dtc:server
- dtc:topology
- filterfingerprint
- filtermac
- filternac
- filteroption
- filterrelayagent
- fingerprint
- fixedaddress
- fixedaddresstemplate
- ftpuser
- gcpdnstaskgroup
- gcpuser
- gmcschedule
- grid:dhcpproperties
- grid:dns
- grid:filedistribution
- grid:servicerestart:group
- grid:threatinsight
- ipv6dhcpoptionspace
- ipv6filteroption
- ipv6fixedaddress
- ipv6fixedaddresstemplate
- ipv6network
- ipv6networkcontainer
- ipv6networktemplate
- ipv6range
- ipv6rangetemplate
- ipv6sharednetwork
- kerberoskey
- ldap_auth_service
- lease
- macfilteraddress
- mastergrid
- member
- member:dhcpproperties
- member:dns
- member:filedistribution
- member:threatprotection
- mgm:allrecords
- mgm:dhcpobjects
- mgm:discovery_data

- mgm:dnsview
- mgm:exclude
- mgm:grid
- mgm:host
- mgm:lease
- mgm:member
- mgm:network
- mgm:networkview
- mgm:zone
- msserver
- msserver:adsites:domain
- msserver:adsites:site
- msserver:dhcp
- msserver:dns
- mssuperscope
- multiregions
- namedacl
- natgroup
- network
- networkcontainer
- networktemplate
- networkuser
- networkview
- notification:rule
- nsgroup
- nsgroup:delegation
- nsgroup:forwardingmember
- nsgroup:forwardstubserver
- nsgroup:stubmember
- parentalcontrol:avp
- parentalcontrol:subscribersite
- radius:authservice
- range
- rangetemplate
- record:a
- record:aaaa
- record:alias
- record:caa
- record:cname
- record:dhcid
- record:dname
- record:dnskey
- record:ds
- record:host
- record:host_ipv4addr
- record:host_ipv6addr
- record:https
- record:mx
- record:naptr
- record:ns
- record:nsec
- record:nsec3param

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Search

The field is available for search via

- '=' (exact equality)

Notes

objtype is a search-only field.

search_string

`search_string`

Pattern to search for. In most cases, using regular expression (~=) will be the preferred method. Using equal match (=) matches only complete, not partial, fields.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

search_string is a search-only field.

Search-only Fields List

Field	Type	Search
address	String	=
duid	String	=
fqdn	String	: ~
mac_address	String	=
objtype	String	=
search_string	String	: = ~

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sharednetwork : DHCP Shared Network object.

A shared network is a network segment to which you assign two or more subnets. When subnets in a shared network contain IP addresses that are available for dynamic allocation, the addresses are put into a common pool for allocation when client requests arise. When you create a shared network, the DHCP server can assign IP addresses to client requests from any subnet (that resides on the same network interface) in the shared network.

Object Reference

References to sharednetwork are object references. The *name* part of a shared network object reference has the following components:

- The name of the shared network.

Example (using _ref or UUID):

```
# Using _ref sharednetwork/5ldHdvcmskMTEuMC4:sharedname

# Using UUID sharednetwork/123e4567e89b12d3a456426614174000
```

Restrictions

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, network_view, networks, uuid**.

The following fields are required to create this object:

Field	Notes
name	
networks	

authority

`authority`

Authority for the shared network.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

authority is associated with the field use_authority (see use flag).

bootfile

`bootfile`

The bootfile name for the shared network. You can configure the DHCP server to support clients that use the boot file name option in their DHCPREQUEST messages.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootfile is associated with the field use_bootfile (see use flag).

bootserver

`bootserver`

The bootserver address for the shared network. You can specify the name and/or IP address of the boot server that the host needs to boot.

The boot server IPv4 Address or name in FQDN format.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

bootserver is associated with the field use_bootserver (see use flag).

comment

`comment`

Comment for the shared network, maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

ddns_generate_hostname

`ddns_generate_hostname`

If this field is set to True, the DHCP server generates a hostname and updates DNS with it when the DHCP client request does not contain a hostname.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_generate_hostname is associated with the field use_ddns_generate_hostname (see use flag).

ddns_server_always_updates

`ddns_server_always_updates`

This field controls whether only the DHCP server is allowed to update DNS, regardless of the DHCP clients requests. Note that changes for this field take effect only if ddns_use_option81 is True.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

ddns_ttl

`ddns_ttl`

The DNS update Time to Live (TTL) value of a shared network object.

The TTL is a 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

Notes

ddns_ttl is associated with the field use_ddns_ttl (see use flag).

ddns_update_fixed_addresses

`ddns_update_fixed_addresses`

By default, the DHCP server does not update DNS when it allocates a fixed address to a client. You can configure the DHCP server to update the A and PTR records of a client with a fixed address. When this feature is enabled and the DHCP server adds A and PTR records for a fixed address, the DHCP server never discards the records.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_update_fixed_addresses is associated with the field use_ddns_update_fixed_addresses (see use flag).

ddns_use_option81

ddns_use_option81

The support for DHCP Option 81 at the shared network level.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_use_option81 is associated with the field use_ddns_use_option81 (see use flag).

deny_bootp

deny_bootp

If set to true, BOOTP settings are disabled and BOOTP requests will be denied.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

deny_bootp is associated with the field use_deny_bootp (see use flag).

dhcp_utilization

dhcp_utilization

The percentage of the total DHCP utilization of the networks belonging to the shared network multiplied by 1000. This is the percentage of the total number of available IP addresses from all the networks belonging to the shared network versus the total number of all IP addresses in all of the networks in the shared network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dhcp_utilization cannot be updated.

dhcp_utilization cannot be written.

dhcp_utilization_status

`dhcp_utilization_status`

A string describing the utilization level of the shared network.

Type

String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL

Search

The field is not available for search.

Notes

The dhcp_utilization_status cannot be updated.

dhcp_utilization_status cannot be written.

disable

`disable`

Determines whether a shared network is disabled or not. When this is set to False, the shared network is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dynamic_hosts

`dynamic_hosts`

The total number of DHCP leases issued for the shared network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The dynamic_hosts cannot be updated.

dynamic_hosts cannot be written.

enable_ddns

`enable_ddns`

The dynamic DNS updates flag of a shared network object. If set to True, the DHCP server sends DDNS updates to DNS servers in the same Grid, and to external DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_ddns is associated with the field use_enable_ddns (see use flag).

enable_pxe_lease_time

`enable_pxe_lease_time`

Set this to True if you want the DHCP server to use a different lease time for PXE clients.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ignore_client_identifier

`ignore_client_identifier`

If set to true, the client identifier will be ignored.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_client_identifier is associated with the field use_ignore_client_identifier (see use flag).

ignore_dhcp_option_list_request

`ignore_dhcp_option_list_request`

If this field is set to False, the appliance returns all DHCP options the client is eligible to receive, rather than only the list of options the client has requested.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ignore_dhcp_option_list_request is associated with the field use_ignore_dhcp_option_list_request (see use flag).

ignore_id

`ignore_id`

Indicates whether the appliance will ignore DHCP client IDs or MAC addresses. Valid values are “NONE”, “CLIENT”, or “MACADDR”. The default is “NONE”.

Type

String.

Valid values are:

- CLIENT
- MACADDR
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

Notes

ignore_id is associated with the field use_ignore_id (see use flag).

ignore_mac_addresses

`ignore_mac_addresses`

A list of MAC addresses the appliance will ignore.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

lease_scavenge_time

`lease_scavenge_time`

An integer that specifies the period of time (in seconds) that frees and backs up leases remained in the database before they are automatically deleted.

To disable lease scavenging, set the parameter to -1. The minimum positive value must be greater than 86400 seconds (1 day).

Type

Integer.

Create

The default value is *-1*.

Search

The field is not available for search.

Notes

lease_scavenge_time is associated with the field use_lease_scavenge_time (see use flag).

logic_filter_rules

`logic_filter_rules`

This field contains the logic filters to be applied on the this shared network.

This list corresponds to the match rules that are written to the dhcpd configuration file.

Type

A/An Logic Filter rule struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

logic_filter_rules is associated with the field use_logic_filter_rules (see use flag).

ms_ad_user_data

`ms_ad_user_data`

The Microsoft Active Directory user related information.

Type

A/An Active Directory User Data struct.

Search

The field is not available for search.

Notes

The ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

name

`name`

The name of the IPv6 Shared Network.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view in which this shared network resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

networks

`networks`

A list of networks belonging to the shared network

Each individual list item must be specified as an object containing a '_ref' parameter to a network reference, for example:

```
[{
    "_ref": "network/ZG5zLm5ldHdvcmskMTAuMwLvMTYvMA",
}]
```

if the reference of the wanted network is not known, it is possible to specify search parameters for the network instead in the following way:

```
[{
    "_ref": {
        'network': '10.0.0.0/8',
    }
}]
```

note that in this case the search must match exactly one network for the assignment to be successful.

Type

A/An network object array.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The networks is part of the base object.

nextserver

`nextserver`

The name in FQDN and/or IPv4 Address of the next server that the host needs to boot.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nextserver is associated with the field use_nextserver (see use flag).

options

options

An array of DHCP option structs that lists the DHCP options associated with the object.

Type

A/An DHCP option struct array.

Create

The default value is:

```
[ { 'name': 'dhcp-lease-time',
'num': 51,
'use_option': False,
'value': '43200',
'vendor_class': 'DHCP'}]
```

Search

The field is not available for search.

Notes

options is associated with the field use_options (see use flag).

pxe_lease_time

pxe_lease_time

The PXE lease time value of a shared network object. Some hosts use PXE (Preboot Execution Environment) to boot remotely from a server. To better manage your IP resources, set a different lease time for PXE boot requests. You can configure the DHCP server to allocate an IP address with a shorter lease time to hosts that send PXE boot requests, so IP addresses are not leased longer than necessary.

A 32-bit unsigned integer that represents the duration, in seconds, for which the update is cached. Zero indicates that the update is not cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

pxe_lease_time is associated with the field use_pxe_lease_time (see use flag).

static_hosts

`static_hosts`

The number of static DHCP addresses configured in the shared network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The static_hosts cannot be updated.

static_hosts cannot be written.

total_hosts

`total_hosts`

The total number of DHCP addresses configured in the shared network.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The total_hosts cannot be updated.

total_hosts cannot be written.

update_dns_on_lease_renewal

`update_dns_on_lease_renewal`

This field controls whether the DHCP server updates DNS when a DHCP lease is renewed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

update_dns_on_lease_renewal is associated with the field use_update_dns_on_lease_renewal (see use flag).

use_authority

`use_authority`

Use flag for: authority

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootfile

`use_bootfile`

Use flag for: bootfile

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_bootserver

`use_bootserver`

Use flag for: bootserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_generate_hostname

`use_ddns_generate_hostname`

Use flag for: ddns_generate_hostname

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_ttl

`use_ddns_ttl`

Use flag for: ddns_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_update_fixed_addresses

`use_ddns_update_fixed_addresses`

Use flag for: ddns_update_fixed_addresses

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_use_option81

`use_ddns_use_option81`

Use flag for: ddns_use_option81

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_deny_bootp

`use_deny_bootp`

Use flag for: deny_bootp

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_enable_ddns

`use_enable_ddns`

Use flag for: enable_ddns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_client_identifier

`use_ignore_client_identifier`

Use flag for: ignore_client_identifier

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_dhcp_option_list_request

`use_ignore_dhcp_option_list_request`

Use flag for: ignore_dhcp_option_list_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ignore_id

`use_ignore_id`

Use flag for: ignore_id

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_lease_scavenge_time

`use_lease_scavenge_time`

Use flag for: lease_scavenge_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_logic_filter_rules

use_logic_filter_rules

Use flag for: logic_filter_rules

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nextserver

use_nextserver

Use flag for: nextserver

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_options

use_options

Use flag for: options

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_pxe_lease_time

use_pxe_lease_time

Use flag for: pxe_lease_time

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_update_dns_on_lease_renewal

`use_update_dns_on_lease_renewal`

Use flag for: update_dns_on_lease_renewal

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
authority	Bool	N	N	N	N/A

bootfile	String	N	N	N	N/A
bootserver	String	N	N	N	N/A
comment	String	N	N	Y	: = ~
ddns_generate_hostname	Bool	N	N	N	N/A
ddns_server_always_updates	Bool	N	N	N	N/A
ddns_ttl	Unsigned int	N	N	N	N/A
ddns_update_fixed_addresses	Bool	N	N	N	N/A
ddns_use_option81	Bool	N	N	N	N/A
deny_bootp	Bool	N	N	N	N/A
dhcp_utilization	Unsigned int	N	Y	N	N/A
dhcp_utilization_status	String	N	Y	N	N/A
disable	Bool	N	N	N	N/A
dynamic_hosts	Unsigned int	N	Y	N	N/A
enable_ddns	Bool	N	N	N	N/A
enable_pxe_lease_time	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
ignore_client_identifier	Bool	N	N	N	N/A
ignore_dhcp_option_list_request	Bool	N	N	N	N/A
ignore_id	String	N	N	N	N/A
ignore_mac_addresses	[String]	N	N	N	N/A
lease_scavenge_time	Integer	N	N	N	N/A
logic_filter_rules	[struct]	N	N	N	N/A
ms_ad_user_data	struct	N	Y	N	N/A
name	String	Y	N	Y	: = ~
network_view	String	N	N	Y	=
networks	[obj]	Y	N	Y	N/A
nextserver	String	N	N	N	N/A
options	[struct]	N	N	N	N/A
pxe_lease_time	Unsigned int	N	N	N	N/A
static_hosts	Unsigned int	N	Y	N	N/A
total_hosts	Unsigned int	N	Y	N	N/A
update_dns_on_lease_renewal	Bool	N	N	N	N/A
use_authority	Bool	N	N	N	N/A
use_bootfile	Bool	N	N	N	N/A
use_bootserver	Bool	N	N	N	N/A
use_ddns_generate_hostname	Bool	N	N	N	N/A
use_ddns_ttl	Bool	N	N	N	N/A
use_ddns_update_fixed_addresses	Bool	N	N	N	N/A
use_ddns_use_option81	Bool	N	N	N	N/A
use_deny_bootp	Bool	N	N	N	N/A
use_enable_ddns	Bool	N	N	N	N/A
use_ignore_client_identifier	Bool	N	N	N	N/A
use_ignore_dhcp_option_list_request	Bool	N	N	N	N/A
use_ignore_id	Bool	N	N	N	N/A
use_lease_scavenge_time	Bool	N	N	N	N/A

use_logic_filter_rules	Bool	N	N	N	N/A
use_nextserver	Bool	N	N	N	N/A
use_options	Bool	N	N	N	N/A
use_pxe_lease_time	Bool	N	N	N	N/A
use_update_dns_on_lease_renewal	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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sharednetwork : DHCP Shared Network object.

Next topic

sharedrecord:aaaa : DNS Shared AAAA record object.

sharedrecord:a : DNS Shared A record object.

A shared A (address) record is similar to a regular A record. It maps a domain name to an IPv4 address. The difference is that a shared A record should be added to a shared record group. If the shared record group is associated with other zones, the shared A record is shared among these zones.

Object Reference

References to sharedrecord:a are object references. The *name* part of a shared A record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example: sharedrecord:a/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name/default

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, name, shared_record_group, uuid**.

The following fields are required to create this object:

Field	Notes
ipv4addr	
name	
shared_record_group	

comment

comment

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv4addr

`ipv4addr`

The IPv4 Address of the shared record.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

name

name

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

shared_record_group

shared_record_group

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

ttl

ttl

The Time To Live (TTL) value for this shared record. A 32-bit

unsigned integer that represents the duration, in seconds, for which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
ipv4addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
shared_record_group	String	Y	N	Y	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

sharedrecord:aaaa : DNS Shared AAAA record object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - dns_name
  - extattrs
  - ipv6addr
  - name
  - shared_record_group
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

sharedrecord:a : DNS Shared A record object.

Next topic

sharedrecord:cname : DNS Shared CNAME record object.

sharedrecord:aaaa : DNS Shared AAAA record object.

A shared AAAA (address) record is similar to a regular AAAA record. It maps a domain name to an IPv6 address. The difference is that a shared AAAA record should be added to a shared record group. If the shared record group is associated with other zones, the shared AAAA record is shared among these zones.

Object Reference

References to sharedrecord:aaaa are object references. The *name* part of a shared AAAA record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example:
sharedrecord:aaaa/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name/default

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv6addr, name, shared_record_group, uuid**.

The following fields are required to create this object:

Field	Notes
ipv6addr	
name	
shared_record_group	

comment

`comment`

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

`dns_name`

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

ipv6addr

`ipv6addr`

The IPv6 Address of the shared record.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

name

`name`

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for this shared record. A 32-bit unsigned integer that represents the duration, in seconds, for which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A

extattrs	Extattr	N	N	N	ext
ipv6addr	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
shared_record_group	String	Y	N	Y	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

sharedrecord:cname : DNS Shared CNAME record object.
- Object Reference
- Restrictions
- Fields
  - canonical
  - comment
  - disable
  - dns_canonical
  - dns_name
  - extattrs
  - name
  - shared_record_group
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

sharedrecord:aaaa : DNS Shared AAAA record object.

Next topic

sharedrecord:mx : DNS Shared MX record object.

sharedrecord:cname : DNS Shared CNAME record object.

A shared CNAME (canonical name) record is similar to a regular CNAME record. The difference is that a shared CNAME record should be added to a shared record group. If the shared record group is associated with other zones, the shared CNAME record is shared among these zones.

Object Reference

References to sharedrecord:cname are object references. The *name* part of a shared CNAME record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example: sharedrecord:cname/ZG5zLmJpbmRfdHh0U2Ig:some.name/sharedgroup

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **canonical, name, shared_record_group, uuid**.

The following fields are required to create this object:

Field	Notes
canonical	
name	
shared_record_group	

canonical

`canonical`

Canonical name in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The canonical is part of the base object.

comment

`comment`

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

disable

`disable`

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_canonical

`dns_canonical`

Canonical name in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_canonical cannot be updated.

dns_canonical cannot be written.

dns_name

`dns_name`

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for this shared record. A 32-bit unsigned integer that represents the duration, in seconds, for which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
canonical	String	Y	N	Y	: = ~
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_canonical	String	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
shared_record_group	String	Y	N	Y	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

sharedrecord:mx : DNS Shared MX record object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - dns_mail_exchanger
  - dns_name
  - extattrs
  - mail_exchanger
  - name
  - preference
  - shared_record_group
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

sharedrecord:cname : DNS Shared CNAME record object.

Next topic

sharedrecord:srv : DNS Shared SRV record object.

sharedrecord:mx : DNS Shared MX record object.

A shared MX (mail exchanger) record is similar to a regular MX record. It maps a domain name to a mail exchanger. The difference is that a shared MX record should be added to a shared record group. If the shared record group is associated with other zones, the shared MX record is shared among these zones.

Object Reference

References to sharedrecord:mx are object references. The *name* part of a shared MX record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example:
sharedrecord:mx/ZG5zLmJpbmRfdHh0U2Ig:some.name/sharedgroup

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **mail_exchanger, name, preference, shared_record_group, uuid**.

The following fields are required to create this object:

Field	Notes
mail_exchanger	
name	
preference	
shared_record_group	

comment

`comment`

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_mail_exchanger

`dns_mail_exchanger`

The name of the mail exchanger in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_mail_exchanger cannot be updated.

dns_mail_exchanger cannot be written.

dns_name

`dns_name`

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

mail_exchanger

`mail_exchanger`

The name of the mail exchanger in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The mail_exchanger is part of the base object.

name

`name`

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

preference

`preference`

The preference value. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The preference is part of the base object.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for this shared record. A 32-bit unsigned integer that represents the duration, in seconds, for

which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_mail_exchanger	String	N	Y	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
mail_exchanger	String	Y	N	Y	= ~
name	String	Y	N	Y	: = ~
preference	Unsigned int	Y	N	Y	< = >
shared_record_group	String	Y	N	Y	N/A
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

sharedrecord:srv : DNS Shared SRV record object.
- Object Reference
- Restrictions
- Fields
  - comment
  - disable
  - dns_name
  - dns_target
  - extattrs
  - name
  - port
  - priority
  - shared_record_group
  - target
  - ttl
  - use_ttl
  - uuid
  - weight
- Fields List

Previous topic

sharedrecord:mx : DNS Shared MX record object.

Next topic

sharedrecord:txt : DNS Shared TXT record object.

sharedrecord:srv : DNS Shared SRV record object.

A shared SRV (service) record is similar to a regular SRV record. It provides information about available services. The difference is that a shared SRV record should be added to a shared record group. If the shared record group is associated with other zones, the shared SRV record is shared among these zones.

Object Reference

References to sharedrecord:srv are object references. The *name* part of a shared SRV record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example:
sharedrecord:srv/ZG5zLmJpbmRfdHh0U2Ig:some.name/sharedgroup

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, port, priority, shared_record_group, target, uuid, weight**.

The following fields are required to create this object:

Field	Notes
name	
port	
priority	
shared_record_group	
target	
weight	

comment

comment

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

dns_name

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

dns_target

`dns_target`

The name for a shared SRV record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_target cannot be updated.

dns_target cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

port

`port`

The port of the shared SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The port is part of the base object.

priority

`priority`

The priority of the shared SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The priority is part of the base object.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

target

`target`

The target of the shared SRV record in FQDN format. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The target is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for this shared record. A 32-bit unsigned integer that represents the duration, in seconds, for which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

weight

`weight`

The weight of the shared SRV record. Valid values are from 0 to 65535 (inclusive), in 32-bit unsigned integer format.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The weight is part of the base object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
dns_target	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
port	Unsigned int	Y	N	Y	=
priority	Unsigned int	Y	N	Y	< = >
shared_record_group	String	Y	N	Y	N/A
target	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
weight	Unsigned int	Y	N	Y	< = >

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Table of Contents

sharedrecord:txt : DNS Shared TXT record object.
- Object Reference
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  - comment
  - disable
  - dns_name
  - extattrs
  - name
  - shared_record_group
  - text
  - ttl
  - use_ttl
  - uuid
- Fields List

Previous topic

sharedrecord:srv : DNS Shared SRV record object.

Next topic

sharedrecordgroup : DNS Shared Record Group object.

sharedrecord:txt : DNS Shared TXT record object.

A shared TXT (text) record is similar to a regular TXT record. It contains supplemental information for a host. SPF (Sender Policy Framework) records are specialized TXT records that identify the servers that send mail from a domain. The difference is that a shared TXT record should be added to a shared record group. If the shared record group is associated with other zones, the shared TXT record is shared among these zones.

Object Reference

References to sharedrecord:txt are object references. The *name* part of an shared TXT record object reference has the following components:

- Name of the shared record
- Name of the shared record group

Example:
sharedrecord:txt/ZG5zLmJpbmRfdHh0U2Ig:some.name/sharedgroup

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, shared_record_group, text, uuid**.

The following fields are required to create this object:

Field	Notes
name	
shared_record_group	
text	

comment

comment

Comment for this shared record; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines if this shared record is disabled or not. False means that the record is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_name

dns_name

The name for this shared record in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_name cannot be updated.

dns_name cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name for this shared record. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)

- ‘=’ (exact equality)

Notes

The name is part of the base object.

shared_record_group

`shared_record_group`

The name of the shared record group in which the record resides.

Type

String.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The shared_record_group is part of the base object.

text

`text`

Text associated with the shared record. It can contain up to 255 bytes per substring and up a total of 512 bytes. To enter leading, trailing or embedded spaces in the text, add quotes (” “) around the text to preserve the spaces.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

The text is part of the base object.

ttl

`ttl`

The Time To Live (TTL) value for this shared record. A 32-bit unsigned integer that represents the duration, in seconds, for which the shared record is valid (cached). Zero indicates that the shared record should not be cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ttl is associated with the field use_ttl (see use flag).

use_ttl

`use_ttl`

Use flag for: ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
dns_name	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
shared_record_group	String	Y	N	Y	N/A
text	String	Y	N	Y	= ~
ttl	Unsigned int	N	N	N	N/A
use_ttl	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

sharedrecordgroup : DNS Shared Record Group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - extattrs
  - name
  - record_name_policy
  - use_record_name_policy
  - uuid
  - zone_associations
- Fields List

Previous topic

sharedrecord:txt : DNS Shared TXT record object.

Next topic

smartfolder:children : Smart Folder children object.

sharedrecordgroup : DNS Shared Record Group object.

A shared record group (SRG) is created to contain DNS shared records and share them between different zones. For example, if a group of DNS records needs to be in three different zones, you can include the records in a shared record group and assign the group to the three zones. For more information about shared record groups and shared records, please refer to Infoblox Administrator Guide.

Object Reference

References to sharedrecordgroup are object references. The *name* part of a DNS Shared Record Group object reference has the following components:

- Name of the SRG

Example:

```
# Using _ref
sharedrecordgroup/ZG5zLmJpbmRfY25h:srg_name

# Using UUID
sharedrecordgroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The descriptive comment of this shared record group.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

The name of this shared record group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

record_name_policy

`record_name_policy`

The record name policy of this shared record group.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

record_name_policy is associated with the field use_record_name_policy (see use flag).

use_record_name_policy

`use_record_name_policy`

Use flag for: record_name_policy

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

zone_associations

`zone_associations`

The list of zones associated with this shared record group. Starting from NIOS-9.0.6, this field has been updated to a structure that includes FQDN and DNS view details.

Type

A/An Zone associations struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
record_name_policy	String	N	N	N	N/A
use_record_name_policy	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
zone_associations	[struct]	N	N	N	N/A

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smartfolder:children : Smart Folder children object.
- Object Reference
- Restrictions
- Fields
  - resource
  - value
  - value_type
- Search-only Fields
  - group_by_values
  - group_bys
  - query_items
  - smart_folder
- Fields List
- Search-only Fields List

Previous topic

sharedrecordgroup : DNS Shared Record Group object.

Next topic

smartfolder:global : Global Smart Folder object.

smartfolder:children : Smart Folder children object.

The Smart Folder children object is used to read the objects that are associated with either a Smart Folder (global or personal) or a set of queries that users can make without saving a Smart Folder object on the appliance.

The Smart Folder children object can be used for both “filtering” and “grouping” the results of Smart Folder associated objects.

Object Reference

References to smartfolder:children are object references.

The *name* part of the Smart Folder object reference has the following components:

- The ‘children’ string

Example:

smartfolder:children/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:children

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **resource, value, value_type**.

resource

`resource`

The object returned by the Smart Folder query.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The resource is part of the base object.

The resource cannot be updated.

resource cannot be written.

value

`value`

The value returned by the Smart Folder query.

Type

A/An Smart Folder query item value structure struct.

Search

The field is not available for search.

Notes

The value is part of the base object.

The value cannot be updated.

value cannot be written.

value_type

`value_type`

The type of the returned value.

Type

String.

Valid values are:

- BOOLEAN
- DATE
- EMAIL
- ENUM
- INTEGER
- OBJTYPE
- STRING
- URL

Search

The field is not available for search.

Notes

The value_type is part of the base object.

The value_type cannot be updated.

value_type cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

group_by_values

`group_by_values`

The Smart Folder query values grouping information.

Type

A/An Smart Folder group by value structure struct array.

Search

The field is available for search via

- '=' (exact equality)

Notes

group_by_values is a search-only field.

group_bys

`group_bys`

The Smart Folder query grouping information.

Type

A/An Smart Folder group by structure struct array.

Search

The field is available for search via

- '=' (exact equality)

Notes

group_bys is a search-only field.

query_items

query_items

The Smart Folder query parameters.

Type

A/An Smart Folder query item structure struct array.

Search

The field is available for search via

- '=' (exact equality)

Notes

query_items is a search-only field.

smart_folder

smart_folder

The reference to a global or a personal Smart Folder.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

smart_folder is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
resource	String	N	Y	Y	N/A
value	struct	N	Y	Y	N/A
value_type	String	N	Y	Y	N/A

Search-only Fields List

Field	Type	Search
group_by_values	[struct]	=
group_bys	[struct]	=
query_items	[struct]	=
smart_folder	String	=

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Table of Contents

smartfolder:global : Global Smart Folder object.
- Object Reference
- Restrictions
- Fields
  - comment
  - group_bys
  - name
  - query_items
  - uuid
- Function Calls
  - save_as
- Fields List

Previous topic

smartfolder:children : Smart Folder children object.

Next topic

smartfolder:personal : Personal Smart Folder object.

smartfolder:global : Global Smart Folder object.

Smart Folders are used to organize your core network services data. Depending on your administrative roles and business needs, you can filter your data object types, names, extensible attributes and discovered data and then place the filtered results in a Smart Folder.

The global Smart Folders are created to be shared among administrators.

Object Reference

References to smartfolder:global are object references.

The *name* part of the global Smart Folder object reference has the following components:

- The name of the global Smart Folder

Example (using _ref or UUID):

```
# Using _ref
smartfolder:global/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:SF1

# Using UUID
smartfolder:global/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

comment

The global Smart Folder descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

group_bys

group_bys

Global Smart Folder grouping rules.

Type

A/An Smart Folder group by structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

name

The global Smart Folder name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

query_items

`query_items`

The global Smart Folder filter queries.

Type

A/An Smart Folder query item structure struct array.

Create

The default value is:

```
[ { 'field_type': 'NORMAL',
'name': 'type',
'op_match': True,
'operator': 'EQ',
'value': {'value_string': 'Network/Zone/Range/Member'},
'value_type': 'ENUM'}]
```

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

save_as

This function is used to create a shortcut to a Global Smart Folder in a Personal Smart Folder or to create a complete copy of the Global Smart Folder and save it either as another Smart Folder or as a Global Smart Folder.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

global_flag (Bool.) Determines whether to save Smart Folder as Global Smart Folder. The default value is “False”.

is_shortcut (Bool.) Determines whether the complete copy of the Smart Folder will be created or only a shortcut. The default value is “False”.

name (String.) The newly created Smart Folder name. The default value is “None”.

Output fields

result (String.) The resulting Smart Folder object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
group_bys	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~
query_items	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

smartfolder:personal : Personal Smart Folder object.
- Object Reference
- Restrictions
- Fields
  - comment
  - group_bys
  - is_shortcut
  - name
  - query_items
- Function Calls
  - save_as
- Fields List

Previous topic

smartfolder:global : Global Smart Folder object.

Next topic

snmpuser : SNMP user object.

smartfolder:personal : Personal Smart Folder object.

Smart Folders are used to organize your core network services data. Depending on your administrative roles and business needs, you can filter your data object types, names, extensible attributes and discovered data and then place the filtered results in a Smart Folder.

The personal Smart Folder is used to Smart Folders available only to a administrator that have created the Smart Folder.

Object Reference

References to smartfolder:personal are object references.

The *name* part of the personal Smart Folder object reference has the following components:

- The name of the personal Smart Folder
- Flag that indicates whether personal Smart Folder is a Global Smart Folder shortcut

Example:

smartfolder:personal/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:SF1/false

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, is_shortcut, name**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The personal Smart Folder descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

group_bys

`group_bys`

The personal Smart Folder grouping rules.

Type

A/An Smart Folder group by structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

is_shortcut

`is_shortcut`

Determines whether the personal Smart Folder is a shortcut.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_shortcut is part of the base object.

The is_shortcut cannot be updated.

is_shortcut cannot be written.

name

name

The personal Smart Folder name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

query_items

query_items

The personal Smart Folder filter queries.

Type

A/An Smart Folder query item structure struct array.

Create

The default value is:

```
[ { 'field_type': 'NORMAL',
'name': 'type',
'op_match': True,
'operator': 'EQ',
'value': {'value_string': 'Network/Zone/Range/Member'},
'value_type': 'ENUM'}]
```

Search

The field is not available for search.

Function Calls

save_as

This function is used to create a shortcut to a Personal Smart Folder or to create a complete copy of the Personal Smart Folder and save it either as another Personal Smart Folder or as a Global Smart Folder.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

global_flag (Bool.) Determines whether to save Smart Folder as Global Smart Folder. The default value is “False”.

is_shortcut (Bool.) Determines whether the complete copy of the Smart Folder will be created or only a shortcut. The default value is “False”.

name (String.) The newly created Smart Folder name. The default value is “None”.

Output fields

result (String.) The resulting Smart Folder object.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
group_bys	[struct]	N	N	N	N/A
is_shortcut	Bool	N	Y	Y	=
name	String	Y	N	Y	: = ~
query_items	[struct]	N	N	N	N/A

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Table of Contents

snmpuser : SNMP user object.
- Object Reference
- Restrictions
- Fields
  - authentication_password
  - authentication_protocol
  - comment
  - disable
  - extattrs
  - name
  - privacy_password
  - privacy_protocol
  - uuid
- Fields List

Previous topic

smartfolder:personal : Personal Smart Folder object.

Next topic

superhost : SuperHost object.

snmpuser : SNMP user object.

This object contains information related to SNMPv3 users.

Object Reference

References to snmpuser are object references.

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
authentication_password	See the field description for more information
authentication_protocol	
name	
privacy_password	See the field description for more information
privacy_protocol	

authentication_password

`authentication_password`

Determines an authentication password for the user. This is a write-only attribute.

Type

String.

Create

Password for Authentication is required when Authentication protocol is set.

Search

The field is not available for search.

Notes

authentication_password is not readable.

authentication_protocol

`authentication_protocol`

The authentication protocol to be used for this user.

Type

String.

Valid values are:

- MD5
- NONE
- SHA
- SHA-224
- SHA-256
- SHA-384
- SHA-512

Create

The field is required on creation.

Search

The field is not available for search.

comment

`comment`

A descriptive comment for the SNMPv3 User.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines if SNMPv3 user is disabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following

information.

name

`name`

The name of the user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The name is part of the base object.

privacy_password

`privacy_password`

Determines a password for the privacy protocol.

Type

String.

Create

Password for Privacy is required when Privacy protocol is set.

Search

The field is not available for search.

Notes

privacy_password is not readable.

privacy_protocol

`privacy_protocol`

The privacy protocol to be used for this user.

Type

String.

Valid values are:

- AES
- AES-192
- AES-256
- DES
- NONE

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
authentication_password	String	Y*	N	N	N/A
authentication_protocol	String	Y	N	N	N/A

comment	String	N	N	Y	: = ~
disable	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	= ~
privacy_password	String	Y*	N	N	N/A
privacy_protocol	String	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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superhost : SuperHost object.
- Object Reference
- Restrictions
- Fields
  - comment
  - delete_associated_objects
  - dhcp_associated_objects
  - disabled
  - dns_associated_objects
  - extattrs
  - name
  - uuid
- Fields List

Previous topic

snmpuser : SNMP user object.

Next topic

superhostchild : Super Host Child object.

superhost : SuperHost object.

The collection of correlated IPAM records which is related to single device.

Object Reference

References to superhost are object references. The *name* part of a SuperHost object reference has the following components:

- Name of SuperHost

Example (using _ref or UUID):

```
# Using _ref
superhost/ZG5zLm5ldHdvcmtfdmlldyQxMTk:SupeHost1

# Using UUID
superhost/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The comment for Super Host.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

delete_associated_objects

`delete_associated_objects`

True if we have to delete all DNS/DHCP associated objects with Super Host, false by default.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

delete_associated_objects is not readable.

dhcp_associated_objects

`dhcp_associated_objects`

A list of DHCP objects refs which are associated with Super Host.

Type

An array of the following objects: fixedaddress, ipv6fixedaddress, record:host.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

disabled

`disabled`

Disable all DNS/DHCP associated objects with Super Host if True, False by default.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

dns_associated_objects

`dns_associated_objects`

A list of object refs of the DNS resource records which are associated with Super Host.

Type

An array of the following objects: record:a, record:aaaa, record:ptr, record:host.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name of the Superhost.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
delete_associated_objects	Bool	N	N	N	N/A
dhcp_associated_objects	obj	N	N	N	N/A
disabled	Bool	N	N	N	=
dns_associated_objects	obj	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
uuid	String	N	Y	Y	: = ~

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- Fields List

Previous topic

superhost : SuperHost object.

Next topic

syslog:endpoint : The syslog endpoint object.

superhostchild : Super Host Child object.

The superhostchild object is a read-only synthetic object used to retrieve records assigned to superhost.

Since this is a synthetic object, it supports reading only by specifying search parameters, not by reference.

Object Reference

References to superhostchild are object references. The *name* part of an superhostchild object reference has the following components:

- The name of the record contained in the superhostchild object.

Example: superhostchild/Li5zdXBlcl9ob3N0fZGVmYXV:SUPERHOST1/arecord/1.1.1.1

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, data, name, network_view, parent, record_parent, type, view**.

associated_object

`associated_object`

The record object, if supported by the WAPI. Otherwise, the value is “None”.

Type

String.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The associated_object cannot be updated.

associated_object cannot be written.

comment

`comment`

The record comment.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

creation_timestamp

`creation_timestamp`

Time at which DNS RR was created.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The creation_timestamp cannot be updated.

creation_timestamp cannot be written.

data

`data`

Specific data of DNS/DHCP records.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The data is part of the base object.

The data cannot be updated.

data cannot be written.

disabled

`disabled`

True if the child DNS/DHCP object is disabled.

Type

Bool.

Search

The field is not available for search.

Notes

The disabled cannot be updated.

disabled cannot be written.

name

`name`

Name of the associated DNS/DHCP object.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

network_view

`network_view`

The name of the network view in which this network record resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The network_view is part of the base object.

The network_view cannot be updated.

network_view cannot be written.

parent

`parent`

Name of the Super Host object in which record resides.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The parent is part of the base object.

The parent cannot be updated.

parent cannot be written.

record_parent

`record_parent`

Name of a parent zone/network.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The record_parent is part of the base object.

The record_parent cannot be updated.

record_parent cannot be written.

type

`type`

The record type. When searching for an unspecified record type, the search is performed for all records.

Type

String.

Valid values are:

- ARecord
- AaaaRecord
- FixedAddress
- HostRecord
- IPv6FixedAddress
- PtrRecord

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

view

`view`

Name of the DNS View in which the record resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

The view cannot be updated.

view cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
associated_object	String	N	Y	N	N/A
comment	String	N	Y	Y	: = ~
creation_timestamp	Timestamp	N	Y	N	< = >
data	String	N	Y	Y	: = ~
disabled	Bool	N	Y	N	N/A
name	String	N	Y	Y	: = ~
network_view	String	N	Y	Y	=
parent	String	N	Y	Y	=
record_parent	String	N	Y	Y	: = ~
type	String	N	Y	Y	=
view	String	N	Y	Y	=

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Previous topic

superhostchild : Super Host Child object.

Next topic

tacacsplus:authservice : The TACACS+ authentication service object.

syslog:endpoint : The syslog endpoint object.

The *name* part of the syslog:endpoint object reference has the following components:

- The name of an endpoint.

Example (using _ref or UUID):

```
# Using _ref
syslog:endpoint/b25lLmVuZHBvaW50JDMzOQ:wintermute

# Using UUID
syslog:endpoint/123e4567e89b12d3a456426614174000
```

Object Reference

References to syslog:endpoint are object references.

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, outbound_member_type, uuid**.

The following fields are required to create this object:

Field	Notes
name	
outbound_member_type	

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

log_level

`log_level`

The log level for a notification REST endpoint.

Type

String.

Valid values are:

- DEBUG
- ERROR
- INFO
- WARNING

Create

The default value is *WARNING*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

The name of a Syslog endpoint.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

outbound_member_type

`outbound_member_type`

The outbound member that will generate events.

Type

String.

Valid values are:

- GM
- MEMBER

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The outbound_member_type is part of the base object.

outbound_members

`outbound_members`

The list of members for outbound events.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

syslog_servers

`syslog_servers`

List of syslog servers

Type

A/An Syslog server structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

template_instance

`template_instance`

The Syslog template instance. You cannot change the parameters of the Syslog endpoint template instance.

Type

A/An Notification REST template instance struct.

Create

The default value is *empty*.

Search

The field is not available for search.

timeout

`timeout`

The timeout of session management (in seconds).

Type

Unsigned integer.

Create

The default value is *30*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vendor_identifier

`vendor_identifier`

The vendor identifier.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

wapi_user_name

`wapi_user_name`

The user name for WAPI integration.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

wapi_user_password

`wapi_user_password`

The user password for WAPI integration.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

wapi_user_password is not readable.

Function Calls

test_syslog_connection

Function to test a connection to the syslog endpoint server.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

syslog_server (A/An Syslog server structure struct.). This parameter is mandatory. The syslog server for testing the connection.

Output fields

result (String. Valid values are: “CANNOT_CONNECT”, “TEST_OK”, “CERTIFICATE_IS_NOT_VALID”) The result of connection testing to the endpoint syslog server.

Fields List

Field	Type	Req	R/O	Base	Search
extattrs	Extattr	N	N	N	ext
log_level	String	N	N	N	=
name	String	Y	N	Y	: = ~
outbound_member_type	String	Y	N	Y	=
outbound_members	[String]	N	N	N	N/A
syslog_servers	[struct]	N	N	N	N/A
template_instance	struct	N	N	N	N/A
timeout	Unsigned int	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
vendor_identifier	String	N	N	N	: = ~
wapi_user_name	String	N	N	N	N/A
wapi_user_password	String	N	N	N	N/A

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tacacsplus:authservice : The TACACS+ authentication service object.
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Previous topic

syslog:endpoint : The syslog endpoint object.

Next topic

taxii : Taxii Member object.

tacacsplus:authservice : The TACACS+ authentication service object.

This object is used to supply configuration for TACACS+ authentication service.

Object Reference

References to tacacsplus:authservice are object references.

The *name* part of a TACACS+ authentication service has the following components:

- The name of the TACACS+ authentication service.

Example (using _ref or UUID):

```
# Using _ref
tacacsplus:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:TACACSAuth

# Using UUID
tacacsplus:authservice/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disable, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	
servers	

acct_retries

acct_retries

The number of the accounting retries before giving up and moving on to the next server.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

acct_timeout

`acct_timeout`

The accounting retry period in milliseconds.

Type

Unsigned integer.

Create

The default value is *1000*.

Search

The field is not available for search.

auth_retries

`auth_retries`

The number of the authentication/authorization retries before giving up and moving on to the next server.

Type

Unsigned integer.

Create

The default value is *0*.

Search

The field is not available for search.

auth_timeout

`auth_timeout`

The authentication/authorization timeout period in milliseconds.

Type

Unsigned integer.

Create

The default value is *5000*.

Search

The field is not available for search.

comment

`comment`

The TACACS+ authentication service descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the TACACS+ authentication service object is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

name

`name`

The TACACS+ authentication service name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

servers

`servers`

The list of the TACACS+ servers used for authentication.

Type

A/An The TACACS+ server structure struct array.

Create

The field is required on creation.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

check_tacacsplus_server_settings

Test connectivity to the server, authentication and accounting settings.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

acct_timeout (Unsigned integer.) The accounting timeout in milliseconds. The default value is "5000".

auth_timeout (Unsigned integer.) The authentication timeout in milliseconds. The default value is "5000".

tacacsplus_authservice (String.) The name of the parent TACACS+ authentication service.

tacacsplus_server (A/An The TACACS+ server structure struct.). This parameter is mandatory. The TACACS+ server which will be tested. The 'disable' flag is ignored.

Output fields

acct_time (Unsigned integer.) The amount of time taken for accounting test in milliseconds.

auth_time (Unsigned integer.) The amount of time taken to authentication test in milliseconds.

error_message (String.) The detailed description of failure.

overall_status (String. Valid values are: "SUCCESS", "FAILED") The overall status of the test.

Fields List

Field	Type	Req	R/O	Base	Search
acct_retries	Unsigned int	N	N	N	N/A
acct_timeout	Unsigned int	N	N	N	N/A

auth_retries	Unsigned int	N	N	N	N/A
auth_timeout	Unsigned int	N	N	N	N/A
comment	String	N	N	Y	: = ~
disable	Bool	N	N	Y	N/A
name	String	Y	N	Y	: = ~
servers	[struct]	Y	N	N	N/A
uuid	String	N	Y	Y	: = ~

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taxii : Taxii Member object.
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Previous topic

tacacsplus:authservice : The TACACS+ authentication service object.

Next topic

tftpfiledir : TFTP file or directory object.

taxii : Taxii Member object.

The Taxii Member object provides information about Taxii service configuration such as the start/stop flag and RPZ (Response Policy Zone) configuration.

Object Reference

References to taxii are object references. The *name* part of a Taxii Member object reference has the following components:

- The name of the Taxii Member object.

Example:

```
# Using _ref taxii/ZGldHdvcmtfdmlldyQxMTk:taxii2

# Using UUID taxii/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **ipv4addr, ipv6addr, name, uuid**.

enable_service

`enable_service`

Indicates whether the Taxii service is running on the given member or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ipv4addr

`ipv4addr`

The IPv4 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv4addr is part of the base object.

The ipv4addr cannot be updated.

ipv4addr cannot be written.

ipv6addr

`ipv6addr`

The IPv6 Address of the Grid member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The ipv6addr is part of the base object.

The ipv6addr cannot be updated.

ipv6addr cannot be written.

name

name

The name of the Taxii Member.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

taxii_rpz_config

taxii_rpz_config

Taxii service RPZ configuration list.

Type

A/An Taxii Member RPZ Configuration struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
enable_service	Bool	N	N	N	N/A
ipv4addr	String	N	Y	Y	= ~
ipv6addr	String	N	Y	Y	= ~
name	String	N	Y	Y	: = ~
taxii_rpz_config	[struct]	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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- Fields List
- Search-only Fields List

Previous topic

taxii : Taxii Member object.

Next topic

threatinsight:allowlist : Threat insight allowlist object.

tftpfiledir : TFTP file or directory object.

The TFTP file/directory object provides facilities for creating a directory structure for file distribution, modifying the directory name and permission, creating virtual TFTP root directories, and browsing the contents of the directories.

Note

Parameter directory is required for object searches.

Object Reference

References to tftpfiledir are object references.

The *name* part of the TFTP file/directory object reference has the following components:

- The type of TFTP file or directory entity
- The name of the TFTP file or directory entity

Example:

tftpfiledir/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:dir1

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **directory, name, type**.

The following fields are required to create this object:

Field	Notes
name	
type	

directory

directory

The path to the directory that contains file or subdirectory.

Type

String.

Create

The default value is /.

Search

The field is available for search via

- '=' (exact equality)

Notes

The directory is part of the base object.

The directory cannot be updated.

is_synced_to_gm

is_synced_to_gm

Determines whether the TFTP entity is synchronized to Grid Master.

Type

Bool.

Search

The field is not available for search.

Notes

The is_synced_to_gm cannot be updated.

is_synced_to_gm cannot be written.

last_modify

last_modify

The time when the file or directory was last modified.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_modify cannot be updated.

last_modify cannot be written.

name

`name`

The TFTP directory or file name.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

type

`type`

The type of TFTP file system entity (directory or file).

Type

String.

Valid values are:

- DIRECTORY
- FILE

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

vtftp_dir_members

`vtftp_dir_members`

The replication members with TFTP client addresses where this virtual folder is applicable.

Type

A/An Virtual TFTP directory member struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

recursive

`recursive`

Determines whether the recursive read is performed on directory.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

recursive is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search

directory	String	N	N	Y	=
is_synced_to_gm	Bool	N	Y	N	N/A
last_modify	Timestamp	N	Y	N	N/A
name	String	Y	N	Y	: = ~
type	String	Y	N	Y	=
vtftp_dir_members	[struct]	N	N	N	N/A

Search-only Fields List

Field	Type	Search
recursive	Bool	=

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Previous topic

tftpfiledir : TFTP file or directory object.

Next topic

threatinsight:cloudclient : Threat Insight Cloud Client object.

threatinsight:allowlist : Threat insight allowlist object.

The threat insight allowlist object contains trusted domains on which NIOS allows DNS traffic.

Object Reference

References to threatinsight:allowlist are object references.

The *name* part of the threat insight allowlist object reference has the following components:

- The fully-qualified domain name (FQDN) of the threat insight allowlist

Example (using _ref or UUID):

```
# Using _ref threatinsight:allowlist/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:allowlist.com

# Using UUID threatinsight:allowlist/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, disable, fqdn, uuid**.

The following fields are required to create this object:

Field	Notes
fqdn	

comment

`comment`

The descriptive comment for the threat insight allowlist.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

disable

`disable`

Determines whether the threat insight allowlist is disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The disable is part of the base object.

fqdn

`fqdn`

The FQDN of the threat insight allowlist.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The fqdn is part of the base object.

type

`type`

The type of the threat insight allowlist.

Type

String.

Valid values are:

- CUSTOM
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The type cannot be updated.

type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
disable	Bool	N	N	Y	N/A
fqdn	String	Y	N	Y	: = ~
type	String	N	Y	N	=

uuid	String	N	Y	Y	: = ~

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Table of Contents

threatinsight:cloudclient : Threat Insight Cloud Client object.
- Object Reference
- Restrictions
- Fields
  - blacklist_rpz_list
  - enable
  - force_refresh
  - interval
  - uuid
- Fields List

Previous topic

threatinsight:allowlist : Threat insight allowlist object.

Next topic

threatinsight:insight_allowlist : Threat insight allowlist object.

threatinsight:cloudclient : Threat Insight Cloud Client object.

You can use the Threat Insight Cloud Client object to configure the detection and authentication of domains in the Cloud, and then apply them to on-premises DNS firewall RPZ zones within a configurable time frame.

Object Reference

References to threatinsight:cloudclient are object references.

The *name* part of the threatinsight:cloudclient object reference has the following components:

- The 'cloudclient' string

Example (using _ref or UUID):

```
# Using _ref threatinsight:cloudclient/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:cloudclient

# Using UUID threatinsight:cloudclient/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **enable, interval, uuid**.

blacklist_rpz_list

`blacklist_rpz_list`

The RPZs to which you apply newly detected domains through the Infoblox Threat Insight Cloud Client.

Type

A/An zone_rp object array.

This field supports nested return fields as described here.

Create

The default value is *empty*.

Search

The field is not available for search.

enable

`enable`

Determines whether the Threat Insight in Cloud Client is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

The enable is part of the base object.

force_refresh

`force_refresh`

Force a refresh if at least one RPZ is configured.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

force_refresh is not readable.

interval

`interval`

The time interval (in seconds) for requesting newly detected domains by the Infoblox Threat Insight Cloud Client and applying them to the list of configured RPZs.

Type

Unsigned integer.

Create

The default value is *600*.

Search

The field is not available for search.

Notes

The interval is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
blacklist_rpz_list	[obj]	N	N	N	N/A
enable	Bool	N	N	Y	N/A
force_refresh	Bool	N	N	N	N/A
interval	Unsigned int	N	N	Y	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

threatinsight:insight_allowlist : Threat insight allowlist object.
- Object Reference
- Restrictions
- Fields
  - uuid
  - version
- Fields List

Previous topic

threatinsight:cloudclient : Threat Insight Cloud Client object.

Next topic

threatinsight:moduleset : Threat insight module set object.

threatinsight:insight_allowlist : Threat insight allowlist object.

The threat insight allowlist object contains trusted domains on which NIOS allows DNS traffic.

Object Reference

References to threatinsight:insight_allowlist are object references.

The *name* part of the threat insight allowlist object reference has the following components:

- The fully-qualified domain name (FQDN) of the threat insight allowlist

Example (using _ref or UUID):

```
# Using _ref threatinsight:insight_allowlist/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:allowlist.com

# Using UUID threatinsight:insight_allowlist/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid, version**.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

Allowlist version string.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The version is part of the base object.

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
uuid	String	N	Y	Y	: = ~
version	String	N	Y	Y	: = ~

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Table of Contents

threatinsight:moduleset : Threat insight module set object.
- Object Reference
- Restrictions
- Fields
  - uuid
  - version
- Fields List

Previous topic

threatinsight:insight_allowlist : Threat insight allowlist object.

Next topic

threatprotection:grid:rule : Threat protection custom rule object.

threatinsight:moduleset : Threat insight module set object.

The threat insight module set represents the installation or update of module information.

Object Reference

References to threatinsight:moduleset are object references.

The *name* part of the threat insight module set object reference has the following components:

- The version number of the threat insight module set

Example (using _ref or UUID):

```
# Using _ref threatinsight:moduleset/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:184845

# Using UUID threatinsight:moduleset/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **uuid, version**.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

The version number of the threat insight module set.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The version is part of the base object.

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
uuid	String	N	Y	Y	: = ~
version	String	N	Y	Y	= ~

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Table of Contents

threatprotection:grid:rule : Threat protection custom rule object.
- Object Reference
- Restrictions
- Fields
  - allowed_actions
  - category
  - comment
  - config
  - description
  - disabled
  - is_factory_reset_enabled
  - name
  - ruleset
  - sid
  - template
  - type
  - uuid
- Fields List

Previous topic

threatinsight:moduleset : Threat insight module set object.

Next topic

threatprotection:profile : The Threat Protection profile object.

threatprotection:grid:rule : Threat protection custom rule object.

This object provides information about the threat protection custom rule settings.

Object Reference

References to threatprotection:grid:rule are object references.

The *name* part of the threatprotection:grid:rule object reference has the following components:

- The name of the threat protection ruleset the custom rule assigned to.
- The name of the threat protection custom rule with its rule config parameters concatenated.
- The sid of the threat protection custom rule.

Example (using _ref or UUID):

```
# Using _ref
threatprotection:grid:rule/YXRwLmNsdXN0yb3BlcnRpZXMkMA:UDPAttackCounterMeasures:DDOSPrevention%3A:4916

# Using UUID
threatprotection:grid:rule/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, ruleset, sid, uuid**.

The following fields are required to create this object:

Field	Notes
template	

allowed_actions

`allowed_actions`

The list of allowed actions of the custom rule.

Type

Enum values array.

Valid values are:

- ALERT
- DROP
- PASS

Search

The field is not available for search.

Notes

The allowed_actions cannot be updated.

allowed_actions cannot be written.

category

`category`

The rule category the custom rule assigned to.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The category cannot be updated.

category cannot be written.

comment

`comment`

The human readable comment for the custom rule.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

config

`config`

The rule config of the template.

Type

A/An Threat protection rule configuration struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

description

`description`

The description of the custom rule.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The description cannot be updated.

description cannot be written.

disabled

`disabled`

Determines if the custom rule is disabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

is_factory_reset_enabled

`is_factory_reset_enabled`

Determines if factory reset is enabled for the custom rule.

Type

Bool.

Search

The field is not available for search.

Notes

The is_factory_reset_enabled cannot be updated.

is_factory_reset_enabled cannot be written.

name

`name`

The name of the rule custom rule concatenated with its rule config parameters.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

ruleset

`ruleset`

The version of the ruleset the custom rule assigned to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ruleset is part of the base object.

The ruleset cannot be updated.

ruleset cannot be written.

sid

`sid`

The Rule ID.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sid is part of the base object.

The sid cannot be updated.

sid cannot be written.

template

`template`

The threat protection rule template used to create this rule.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

type

`type`

The type of the custom rule.

Type

String.

Valid values are:

- AUTO
- CUSTOM
- SYSTEM

Search

The field is available for search via

- '=' (exact equality)

Notes

The type cannot be updated.

type cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allowed_actions	[Enum]	N	Y	N	N/A
category	String	N	Y	N	=
comment	String	N	N	N	: = ~
config	struct	N	N	N	N/A
description	String	N	Y	N	: = ~
disabled	Bool	N	N	N	N/A
is_factory_reset_enabled	Bool	N	Y	N	N/A
name	String	N	Y	Y	: = ~
ruleset	String	N	Y	Y	=
sid	Unsigned int	N	Y	Y	=
template	String	Y	N	N	=
type	String	N	Y	N	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

- threatprotection:profile : The Threat Protection profile object.
  - Object Reference
  - Restrictions
  - Fields
    - comment
    - current_ruleset
    - disable_multiple_dns_tcp_request
    - events_per_second_per_rule
    - extattrs
    - members
    - name
    - source_member
    - source_profile
    - use_current_ruleset
    - use_disable_multiple_dns_tcp_request
    - use_events_per_second_per_rule
    - uuid
  - Fields List

Previous topic

threatprotection:grid:rule : Threat protection custom rule object.

Next topic

threatprotection:profile:rule : Threat Protection Profile Rule object.

threatprotection:profile : The Threat Protection profile object.

The Threat Protection profile object facilitates configuring groups of Threat Protection members that have similar traffic properties. A member can be either associated with a Threat Protection profile or inherit the ruleset from the Grid or override the ruleset individually at the member level.

Object Reference

References to threatprotection:profile are object references.

The *name* part of the Threat Protection profile object reference has the following components:

- The name of the Threat Protection profile.

Example (using _ref or UUID):

Using _ref threatprotection:profile/YXRwLmNsdXN0ZXJfYXRwX3Byb3BlcnRpZXMkMA:profile

Using UUID threatprotection:profile/123e4567e89b12d3a456426614174000

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The comment for the Threat Protection profile.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

current_ruleset

`current_ruleset`

The current Threat Protection profile ruleset.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '=' (exact equality)

Notes

current_ruleset is associated with the field use_current_ruleset (see use flag).

disable_multiple_dns_tcp_request

`disable_multiple_dns_tcp_request`

Determines if multiple BIND responses via TCP connection are disabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is available for search via

- '=' (exact equality)

Notes

disable_multiple_dns_tcp_request is associated with the field use_disable_multiple_dns_tcp_request (see use flag).

events_per_second_per_rule

`events_per_second_per_rule`

The number of events logged per second per rule.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

events_per_second_per_rule is associated with the field use_events_per_second_per_rule (see use flag).

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

members

`members`

The list of members that are associated with the profile.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

name

name

The name of the Threat Protection profile.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

source_member

source_member

The source member. It can be used only during the create operation for cloning a profile from an existing member.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The source_member cannot be updated.

source_member is not readable.

source_profile

source_profile

The source profile. It can be used only during the create operation for cloning a profile from an existing profile.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The source_profile cannot be updated.

source_profile is not readable.

use_current_ruleset

`use_current_ruleset`

Use flag for: current_ruleset

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable_multiple_dns_tcp_request

`use_disable_multiple_dns_tcp_request`

Use flag for: disable_multiple_dns_tcp_request

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_events_per_second_per_rule

`use_events_per_second_per_rule`

Use flag for: events_per_second_per_rule

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
current_ruleset	String	N	N	N	=
disable_multiple_dns_tcp_request	Bool	N	N	N	=
events_per_second_per_rule	Unsigned int	N	N	N	< = >
extattrs	Extattr	N	N	N	ext
members	[String]	N	N	N	N/A
name	String	Y	N	Y	: = ~
source_member	String	N	N	N	N/A
source_profile	String	N	N	N	N/A
use_current_ruleset	Bool	N	N	N	N/A
use_disable_multiple_dns_tcp_request	Bool	N	N	N	N/A
use_events_per_second_per_rule	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

threatprotection:profile:rule : Threat Protection Profile Rule object.
- Object Reference
- Restrictions
- Fields
  - config
  - disable
  - profile
  - rule
  - sid
  - use_config
  - use_disable
- Fields List

Previous topic

threatprotection:profile : The Threat Protection profile object.

Next topic

threatprotection:rule : Member Threat Protection Rule object.

threatprotection:profile:rule : Threat Protection Profile Rule object.

This object provides information about the Threat protection profile rule settings.

Object Reference

References to threatprotection:profile:rule are object references.

The *name* part of the threat protection profile rule object reference has the following components:

- Name of the Atp Rule object

Example: threatprotection:profile:rule/ZG5zLm5ldHdvcmtfdmlldyQxMTk:rulename

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **profile, rule**.

config

`config`

The threat protection rule configuration.

Type

A/An Threat protection rule configuration struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

config is associated with the field use_config (see use flag).

disable

`disable`

Determines if the rule is enabled or not for the profile.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

disable is associated with the field use_disable (see use flag).

profile

`profile`

The name of the Threat protection profile.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The profile is part of the base object.

The profile cannot be updated.

profile cannot be written.

rule

`rule`

The rule object name.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The rule is part of the base object.

The rule cannot be updated.

rule cannot be written.

sid

`sid`

The snort rule ID.

Type

Unsigned integer.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The sid cannot be updated.

sid cannot be written.

use_config

`use_config`

Use flag for: config

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable

`use_disable`

Use flag for: disable

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
config	struct	N	N	N	N/A
disable	Bool	N	N	N	N/A
profile	String	N	Y	Y	=
rule	String	N	Y	Y	=
sid	Unsigned int	N	Y	N	=
use_config	Bool	N	N	N	N/A
use_disable	Bool	N	N	N	N/A

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Table of Contents

threatprotection:rule : Member Threat Protection Rule object.
- Object Reference
- Restrictions
- Fields
  - config
  - disable
  - member
  - rule
  - sid
  - use_config
  - use_disable
  - uuid
- Fields List

Previous topic

threatprotection:profile:rule : Threat Protection Profile Rule object.

Next topic

threatprotection:rulecategory : Threat protection rule category object.

threatprotection:rule : Member Threat Protection Rule object.

This object provides information about the member Threat protection rule settings.

Object Reference

References to threatprotection:rule are object references.

The *name* part of the threat protection rule object reference has the following components:

- Name of the Atp Rule object

Example (using _ref or UUID):

```
# Using _ref
threatprotection:rule/ZG5zLm5ldHdvcmtfdmlldyQxMTk:somerulename

# Using UUID
threatprotection:rule/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **member, rule, uuid**.

config

`config`

The threat protection rule configuration.

Type

A/An Threat protection rule configuration struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

config is associated with the field use_config (see use flag).

disable

`disable`

Determines if the rule is enabled or not for the member.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

disable is associated with the field use_disable (see use flag).

member

`member`

The name of the Threat protection member.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

rule

`rule`

The rule object name.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The rule is part of the base object.

The rule cannot be updated.

rule cannot be written.

sid

`sid`

The Rule ID.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sid cannot be updated.

sid cannot be written.

use_config

`use_config`

Use flag for: config

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_disable

`use_disable`

Use flag for: disable

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
config	struct	N	N	N	N/A
disable	Bool	N	N	N	N/A
member	String	N	Y	Y	=
rule	String	N	Y	Y	=

sid	Unsigned int	N	Y	N	=
use_config	Bool	N	N	N	N/A
use_disable	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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Table of Contents

threatprotection:rulecategory : Threat protection rule category object.
- Object Reference
- Restrictions
- Fields
  - is_factory_reset_enabled
  - name
  - ruleset
  - uuid
- Fields List

Previous topic

threatprotection:rule : Member Threat Protection Rule object.

Next topic

threatprotection:ruleset : The Grid threat protection ruleset object.

threatprotection:rulecategory : Threat protection rule category object.

This object provides information about the threat protection rule category settings.

Object Reference

References to threatprotection:rulecategory are object references.

The *name* part of the threatprotection:rulecategory object reference has the following components:

- The name of the threat protection ruleset the category assigned to.
- The name of the threat protection category.

Example (using _ref or UUID):

```
# Using _ref
threatprotection:rulecategory/YXRwLmNsdXN0yb3BlcnRpZXMkMA:UDPAttackCounterMeasures:BlockingFloodTechniques

# Using UUID
threatprotection:rulecategory/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, ruleset, uuid**.

is_factory_reset_enabled

`is_factory_reset_enabled`

Determines if factory reset is enabled for this rule category.

Type

Bool.

Search

The field is not available for search.

Notes

The is_factory_reset_enabled cannot be updated.

is_factory_reset_enabled cannot be written.

name

`name`

The name of the rule category.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

ruleset

`ruleset`

The version of the ruleset the category assigned to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ruleset is part of the base object.

The ruleset cannot be updated.

ruleset cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
is_factory_reset_enabled	Bool	N	Y	N	N/A
name	String	N	Y	Y	: = ~
ruleset	String	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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Table of Contents

threatprotection:ruleset : The Grid threat protection ruleset object.
- Object Reference
- Restrictions
- Fields
  - add_type
  - added_time
  - comment
  - do_not_delete
  - is_factory_reset_enabled
  - used_by
  - uuid
  - version
- Fields List

Previous topic

threatprotection:rulecategory : Threat protection rule category object.

Next topic

threatprotection:ruletemplate : Threat protection rule template object.

threatprotection:ruleset : The Grid threat protection ruleset object.

This object represent the Grid protection ruleset information.

Object Reference

References to threatprotection:ruleset are object references.

The *name* part of the threatprotection:ruleset object reference has the following components:

- The ruleset version.

Example (using _ref or UUID):

```
# Using _ref
threatprotection:ruleset/YXRwLmNsdXN0ZXJfYXRwX3Byb3BlcnRpZXMkMA:42

# Using UUID
threatprotection:ruleset/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **add_type, uuid, version**.

add_type

`add_type`

Determines the way the ruleset was added.

Type

String.

Valid values are:
- AUTOMATIC
- MANUAL

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The add_type is part of the base object.

The add_type cannot be updated.

add_type cannot be written.

added_time

`added_time`

The time when the ruleset was added.

Type

Timestamp.

Search

The field is not available for search.

Notes

The added_time cannot be updated.

added_time cannot be written.

comment

`comment`

The human readable comment for the ruleset.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

do_not_delete

`do_not_delete`

Determines if the ruleset will not be deleted during upgrade.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

is_factory_reset_enabled

`is_factory_reset_enabled`

Determines if factory reset is enabled for this ruleset.

Type

Bool.

Search

The field is not available for search.

Notes

The is_factory_reset_enabled cannot be updated.

is_factory_reset_enabled cannot be written.

used_by

`used_by`

The users of the ruleset.

Type

String array.

Search

The field is not available for search.

Notes

The used_by cannot be updated.

used_by cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)

- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

version

`version`

The ruleset version.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The version is part of the base object.

The version cannot be updated.

version cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
add_type	String	N	Y	Y	=
added_time	Timestamp	N	Y	N	N/A
comment	String	N	N	N	: = ~
do_not_delete	Bool	N	N	N	N/A
is_factory_reset_enabled	Bool	N	Y	N	N/A
used_by	[String]	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
version	String	N	Y	Y	: = ~

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Table of Contents

threatprotection:ruletemplate : Threat protection rule template object.
- Object Reference
- Restrictions
- Fields
  - allowed_actions
  - category
  - default_config
  - description
  - name
  - ruleset
  - sid
  - uuid
- Fields List

Previous topic

threatprotection:ruleset : The Grid threat protection ruleset object.

Next topic

threatprotection:statistics : Threat protection statistics object.

threatprotection:ruletemplate : Threat protection rule template object.

This object provides information about the threat protection rule template settings.

Object Reference

References to threatprotection:ruletemplate are object references.

The *name* part of the threatprotection:ruletemplate object reference has the following components:

- The name of the threat protection ruleset the template assigned to.
- The name of the threat protection template.
- The sid of the threat protection template.

Example (using _ref or UUID):

```
# Using _ref
threatprotection:ruletemplate/YXRwLmNsdXN0yb3BlcnRpZXMkMA:UDPAttackCounterMeasures:DDOSPrevention:4916

# Using UUID
threatprotection:ruletemplate/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name, ruleset, sid, uuid**.

allowed_actions

`allowed_actions`

The list of allowed actions of rhe rule template.

Type

Enum values array.

Valid values are:

- ALERT
- DROP
- PASS

Search

The field is not available for search.

Notes

The allowed_actions cannot be updated.

allowed_actions cannot be written.

category

`category`

The rule category this template assigned to.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The category cannot be updated.

category cannot be written.

default_config

`default_config`

The rule config of this template.

Type

A/An Threat protection rule configuration struct.

Search

The field is not available for search.

Notes

The default_config cannot be updated.

default_config cannot be written.

description

`description`

The description of the rule template.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The description cannot be updated.

description cannot be written.

name

`name`

The name of the rule template.

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

ruleset

`ruleset`

The version of the ruleset the template assigned to.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The ruleset is part of the base object.

The ruleset cannot be updated.

ruleset cannot be written.

sid

`sid`

The Rule ID.

Type

Unsigned integer.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sid is part of the base object.

The sid cannot be updated.

sid cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allowed_actions	[Enum]	N	Y	N	N/A
category	String	N	Y	N	=
default_config	struct	N	Y	N	N/A
description	String	N	Y	N	: = ~
name	String	N	Y	Y	: = ~
ruleset	String	N	Y	Y	=
sid	Unsigned int	N	Y	Y	=
uuid	String	N	Y	Y	: = ~

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threatprotection:statistics : Threat protection statistics object.
- Object Reference
- Restrictions
- Fields
  - member
  - stat_infos
- Fields List

Previous topic

threatprotection:ruletemplate : Threat protection rule template object.

Next topic

upgradegroup : Upgrade group object.

threatprotection:statistics : Threat protection statistics object.

This object provides information about the threat protection statistics.

Object Reference

References to threatprotection:statistics are object references.

The *name* part of the threatprotection:statistics object reference has the following components:

- The name of the member or the 'Grid', if no member is specified.

Example:

threatprotection:statistics/YXRwLmNsdXN0yb3BlcnRpZXMkMA:member1.org

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **member, stat_infos**.

member

`member`

The Grid member name to get threat protection statistics. If nothing is specified then event statistics is returned for the Grid.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

stat_infos

`stat_infos`

The list of event statistical information for the Grid or particular members.

Type

A/An Threat protection statistical information struct array.

Search

The field is not available for search.

Notes

The stat_infos is part of the base object.

The stat_infos cannot be updated.

stat_infos cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
member	String	N	Y	Y	=
stat_infos	[struct]	N	Y	Y	N/A

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upgradegroup : Upgrade group object.
- Object Reference
- Restrictions
- Fields
  - comment
  - distribution_dependent_group
  - distribution_policy
  - distribution_time
  - members
  - name
  - time_zone
  - upgrade_dependent_group
  - upgrade_policy
  - upgrade_time
  - uuid
- Fields List

Previous topic

threatprotection:statistics : Threat protection statistics object.

Next topic

upgradeschedule : Upgrade schedule object.

upgradegroup : Upgrade group object.

To minimize the impact of Grid upgrades on system operations, you can organize members into upgrade groups and schedule their software distributions. The upgrade group object provides configuration of upgrade and software distribution for members included in the upgrade group.

Object Reference

References to upgradegroup are object references.

The *name* part of the upgrade group object reference has the following components:

- The upgrade group name

Example (using _ref or UUID):

```
# Using _ref upgradegroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group1

# Using UUID upgradegroup/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

comment

`comment`

The upgrade group descriptive comment.

Type

String.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

distribution_dependent_group

`distribution_dependent_group`

The distribution dependent group name.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

distribution_policy

`distribution_policy`

The distribution scheduling policy.

Type

String.

Valid values are:

- SEQUENTIALLY
- SIMULTANEOUSLY

Create

The default value is *SIMULTANEOUSLY*.

Search

The field is not available for search.

distribution_time

`distribution_time`

The time of the next scheduled distribution.

Type

Timestamp.

Create

The default value is *empty*.

Search

The field is not available for search.

members

`members`

The upgrade group members.

Type

A/An Upgrade group member structure struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

name

`name`

The upgrade group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

time_zone

`time_zone`

The time zone for scheduling operations.

Type

String.

Search

The field is not available for search.

Notes

The time_zone cannot be updated.

time_zone cannot be written.

upgrade_dependent_group

`upgrade_dependent_group`

The upgrade dependent group name.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

upgrade_policy

`upgrade_policy`

The upgrade scheduling policy.

Type

String.

Valid values are:

- SEQUENTIALLY
- SIMULTANEOUSLY

Create

The default value is *SEQUENTIALLY*.

Search

The field is not available for search.

upgrade_time

`upgrade_time`

The time of the next scheduled upgrade.

Type

Timestamp.

Create

The default value is *empty*.

Search

The field is not available for search.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	Y	: = ~
distribution_dependent_group	String	N	N	N	N/A
distribution_policy	String	N	N	N	N/A
distribution_time	Timestamp	N	N	N	N/A
members	[struct]	N	N	N	N/A
name	String	Y	N	Y	: = ~

time_zone	String	N	Y	N	N/A
upgrade_dependent_group	String	N	N	N	N/A
upgrade_policy	String	N	N	N	N/A
upgrade_time	Timestamp	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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upgradeschedule : Upgrade schedule object.
- Object Reference
- Restrictions
- Fields
  - active
  - start_time
  - time_zone
  - upgrade_groups
- Fields List

Previous topic

upgradegroup : Upgrade group object.

Next topic

upgradestatus : The upgrade status object.

upgradeschedule : Upgrade schedule object.

You can schedule lite and full upgrades for certain NIOS versions. When you schedule an upgrade, you schedule the upgrade for the Grid Master and the upgrade groups, including the Default group. The Grid Master must always upgrade before the upgrade groups.

The upgrade schedule object provides configuration of the scheduled upgrade, activation of the latest upgrade, as well as date and time settings for the upgrade.

Object Reference

References to upgradeschedule are object references.

The *name* part of the upgrade group schedule object reference has the following components:

- The ‘upgrade’ string

Example:

upgradeschedule/
ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:upgrade

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **active, start_time, time_zone**.

active

`active`

Determines whether the upgrade schedule is active.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The active is part of the base object.

start_time

`start_time`

The start time of the upgrade.

Type

Timestamp.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The start_time is part of the base object.

time_zone

`time_zone`

The time zone for upgrade start time.

Type

String.

Search

The field is not available for search.

Notes

The time_zone is part of the base object.

The time_zone cannot be updated.

time_zone cannot be written.

upgrade_groups

`upgrade_groups`

The upgrade groups scheduling settings.

Type

A/An Upgrade schedule group structure struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

Fields List

Field	Type	Req	R/O	Base	Search
active	Bool	N	N	Y	N/A
start_time	Timestamp	N	N	Y	N/A
time_zone	String	N	Y	Y	N/A
upgrade_groups	[struct]	N	N	N	N/A

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upgradestatus : The upgrade status object.
- Note
- Object Reference
- Restrictions
- Fields
  - allow_distribution
  - allow_distribution_scheduling
  - allow_upgrade
  - allow_upgrade_cancel
  - allow_upgrade_pause
  - allow_upgrade_resume
  - allow_upgrade_scheduling
  - allow_upgrade_test
  - allow_upload
  - alternate_version
  - comment
  - current_version
  - current_version_summary
  - distribution_schedule_active
  - distribution_schedule_time
  - distribution_state
  - distribution_version
  - distribution_version_summary
  - element_status
  - grid_state
  - group_state
  - ha_status
  - hotfixes
  - ipv4_address
  - ipv6_address
  - member
  - message
  - pnode_role
  - reverted
  - status_time
  - status_value
  - status_value_update_time
  - steps
  - steps_completed
  - steps_total
  - subelement_type
  - subelements_completed
  - subelements_status
  - subelements_total
  - type
  - upgrade_group
  - upgrade_schedule_active
  - upgrade_state
  - upgrade_test_status

upgradestatus : The upgrade status object.

The Upgrade Status object is used to view the upgrade status of Infoblox Grid elements.

Note

Parameter type is required for object searches.

Object Reference

References to upgradestatus are object references.

The *name* part of the upgradestatus object reference has the following components:

- Name of the element of the Grid
- Upgrade status of which was requested.

Example:

upgradestatus/Li51c2VyX3Byb2ZpbGUkMjI:Infoblox

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Read by object reference
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **alternate_version, comment, current_version, distribution_version, element_status, grid_state, group_state, ha_status, hotfixes, ipv4_address, ipv6_address, member, message, pnode_role, reverted, status_value, status_value_update_time, steps, steps_completed, steps_total, type, upgrade_group, upgrade_state, upgrade_test_status, upload_version**.

allow_distribution

`allow_distribution`

Determines if distribution is allowed for the Grid.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_distribution cannot be updated.

allow_distribution cannot be written.

allow_distribution_scheduling

`allow_distribution_scheduling`

Determines if distribution scheduling is allowed.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_distribution_scheduling cannot be updated.

allow_distribution_scheduling cannot be written.

allow_upgrade

`allow_upgrade`

Determines if upgrade is allowed for the Grid.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade cannot be updated.

allow_upgrade cannot be written.

allow_upgrade_cancel

`allow_upgrade_cancel`

Determines if the Grid is allowed to cancel an upgrade.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade_cancel cannot be updated.

allow_upgrade_cancel cannot be written.

allow_upgrade_pause

`allow_upgrade_pause`

Determines if the Grid is allowed to pause an upgrade.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade_pause cannot be updated.

allow_upgrade_pause cannot be written.

allow_upgrade_resume

`allow_upgrade_resume`

Determines if the Grid is allowed to resume an upgrade.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade_resume cannot be updated.

allow_upgrade_resume cannot be written.

allow_upgrade_scheduling

`allow_upgrade_scheduling`

Determine if the Grid is allowed to schedule an upgrade.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade_scheduling cannot be updated.

allow_upgrade_scheduling cannot be written.

allow_upgrade_test

`allow_upgrade_test`

Determines if the Grid is allowed to test an upgrade.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upgrade_test cannot be updated.

allow_upgrade_test cannot be written.

allow_upload

`allow_upload`

Determine if the Grid is allowed to upload a build.

Type

Bool.

Search

The field is not available for search.

Notes

The allow_upload cannot be updated.

allow_upload cannot be written.

alternate_version

`alternate_version`

The alternative version.

Type

String.

Search

The field is not available for search.

Notes

The alternate_version is part of the base object.

The alternate_version cannot be updated.

alternate_version cannot be written.

comment

`comment`

Comment in readable format for an upgrade group a or virtual node.

Type

String.

Search

The field is not available for search.

Notes

The comment is part of the base object.

The comment cannot be updated.

comment cannot be written.

current_version

`current_version`

The current version.

Type

String.

Search

The field is not available for search.

Notes

The current_version is part of the base object.

The current_version cannot be updated.

current_version cannot be written.

current_version_summary

`current_version_summary`

Current version summary for the ‘type’ requested. This field can be requested for the Grid, a certain group that has virtual nodes as subelements, or for the overall group status.

Type

String.

Search

The field is not available for search.

Notes

The current_version_summary cannot be updated.

current_version_summary cannot be written.

distribution_schedule_active

`distribution_schedule_active`

Determines if the distribution schedule is active for the Grid.

Type

Bool.

Search

The field is not available for search.

Notes

The distribution_schedule_active cannot be updated.

distribution_schedule_active cannot be written.

distribution_schedule_time

distribution_schedule_time

The Grid master distribution schedule time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The distribution_schedule_time cannot be updated.

distribution_schedule_time cannot be written.

distribution_state

distribution_state

The current state of distribution process.

Type

String.

Valid values are:

- COMPLETED
- NONE
- PROGRESSING

Search

The field is not available for search.

Notes

The distribution_state cannot be updated.

distribution_state cannot be written.

distribution_version

distribution_version

The version that is distributed.

Type

String.

Search

The field is not available for search.

Notes

The distribution_version is part of the base object.

The distribution_version cannot be updated.

distribution_version cannot be written.

distribution_version_summary

`distribution_version_summary`

Distribution version summary for the ‘type’ requested. This field can be requested for the Grid, a certain group that has virtual nodes as subelements, or for the overall group status.

Type

String.

Search

The field is not available for search.

Notes

The distribution_version_summary cannot be updated.

distribution_version_summary cannot be written.

element_status

`element_status`

The status of a certain element with regards to the type requested.

Type

String.

Valid values are:

- FAILED
- OFFLINE
- WARNING
- WORKING

Search

The field is not available for search.

Notes

The element_status is part of the base object.

The element_status cannot be updated.

element_status cannot be written.

grid_state

grid_state

The state of the Grid.

Type

String.

Valid values are:

- DEFAULT
- DISTRIBUTING
- DISTRIBUTING_COMPLETE
- DISTRIBUTING_ENDED
- DISTRIBUTING_FAILED
- DISTRIBUTING_PAUSED
- DOWNGRADING_COMPLETE
- DOWNGRADING_FAILED
- NONE
- REVERTING
- REVERTING_COMPLETE
- REVERTING_FAILED
- TEST_UPGRADING
- UPGRADING
- UPGRADING_COMPLETE
- UPGRADING_FAILED
- UPGRADING_PAUSED
- UPLOADED

Search

The field is not available for search.

Notes

The grid_state is part of the base object.

The grid_state cannot be updated.

grid_state cannot be written.

group_state

group_state

The state of a group.

Type

String.

Valid values are:

- GROUP_DISTRIBUTING
- GROUP_DISTRIBUTING_COMPLETE
- GROUP_DISTRIBUTING_FAILED
- GROUP_DISTRIBUTING_WAITING
- GROUP_NONE
- GROUP_UPGRADING

- GROUP_UPGRADING_COMPLETE
- GROUP_UPGRADING_WAITING
- UPGRADE_STARTED

Search

The field is not available for search.

Notes

The group_state is part of the base object.

The group_state cannot be updated.

group_state cannot be written.

ha_status

`ha_status`

Status of the HA pair.

Type

String.

Valid values are:
- ACTIVE
- NOT_CONFIGURED
- PASSIVE

Search

The field is not available for search.

Notes

The ha_status is part of the base object.

The ha_status cannot be updated.

ha_status cannot be written.

hotfixes

`hotfixes`

The list of hotfixes.

Type

A/An Upgrade process hotfix struct array.

Search

The field is not available for search.

Notes

The hotfixes is part of the base object.

The hotfixes cannot be updated.

hotfixes cannot be written.

ipv4_address

`ipv4_address`

The IPv4 Address of virtual node or physical one.

Type

String.

Search

The field is not available for search.

Notes

The ipv4_address is part of the base object.

The ipv4_address cannot be updated.

ipv4_address cannot be written.

ipv6_address

`ipv6_address`

The IPv6 Address of virtual node or physical one.

Type

String.

Search

The field is not available for search.

Notes

The ipv6_address is part of the base object.

The ipv6_address cannot be updated.

ipv6_address cannot be written.

member

`member`

Member that participates in the upgrade process.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The member is part of the base object.

The member cannot be updated.

member cannot be written.

message

`message`

The Grid message.

Type

String.

Search

The field is not available for search.

Notes

The message is part of the base object.

The message cannot be updated.

message cannot be written.

pnode_role

`pnode_role`

Status of the physical node in the HA pair.

Type

String.

Search

The field is not available for search.

Notes

The pnode_role is part of the base object.

The pnode_role cannot be updated.

pnode_role cannot be written.

reverted

`reverted`

Determines if the upgrade process is reverted.

Type

Bool.

Search

The field is not available for search.

Notes

The reverted is part of the base object.

The reverted cannot be updated.

reverted cannot be written.

status_time

`status_time`

The status time.

Type

Timestamp.

Search

The field is not available for search.

Notes

The status_time cannot be updated.

status_time cannot be written.

status_value

`status_value`

Status of a certain group, virtual node or physical node.

Type

String.

Valid values are:

- COMPLETED
- FAILURE
- NOT_CONNECTED
- NO_STATUS

- PROGRESSING

Search

The field is not available for search.

Notes

The status_value is part of the base object.

The status_value cannot be updated.

status_value cannot be written.

status_value_update_time

`status_value_update_time`

Timestamp of when the status was updated.

Type

Timestamp.

Search

The field is not available for search.

Notes

The status_value_update_time is part of the base object.

The status_value_update_time cannot be updated.

status_value_update_time cannot be written.

steps

`steps`

The list of upgrade process steps.

Type

A/An Upgrade process step struct array.

Search

The field is not available for search.

Notes

The steps is part of the base object.

The steps cannot be updated.

steps cannot be written.

steps_completed

steps_completed

The number of steps done.

Type

Integer.

Search

The field is not available for search.

Notes

The steps_completed is part of the base object.

The steps_completed cannot be updated.

steps_completed cannot be written.

steps_total

steps_total

Total number steps in the upgrade process.

Type

Integer.

Search

The field is not available for search.

Notes

The steps_total is part of the base object.

The steps_total cannot be updated.

steps_total cannot be written.

subelement_type

subelement_type

The type of subelements to be requested. If ‘type’ is ‘GROUP’, or ‘VNODE’, then ‘upgrade_group’ or ‘member’ should have proper values for an operation to return data specific for the values passed. Otherwise, overall data is returned for every group or physical node.

Type

String.

Valid values are:

- GROUP
- PNODE
- VNODE

Search

The field is available for search via

- '=' (exact equality)

Notes

The subelement_type cannot be updated.

subelement_type cannot be written.

subelements_completed

`subelements_completed`

Number of subelements that have accomplished an upgrade.

Type

Integer.

Search

The field is not available for search.

Notes

The subelements_completed cannot be updated.

subelements_completed cannot be written.

subelements_status

`subelements_status`

The upgrade process information of subelements.

Type

A/An upgradestatus object array.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Search

The field is not available for search.

subelements_total

subelements_total

Number of subelements number in a certain group, virtual node, or the Grid.

Type

Integer.

Search

The field is not available for search.

Notes

The subelements_total cannot be updated.

subelements_total cannot be written.

type

type

The type of upper level elements to be requested.

Type

String.

Valid values are:

- GRID
- GROUP
- PNODE
- VNODE

Search

The field is available for search via

- '=' (exact equality)

Notes

The type is part of the base object.

The type cannot be updated.

type cannot be written.

upgrade_group

upgrade_group

Upgrade group that participates in the upgrade process.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The upgrade_group is part of the base object.

The upgrade_group cannot be updated.

upgrade_group cannot be written.

upgrade_schedule_active

`upgrade_schedule_active`

Determines if the upgrade schedule is active.

Type

Bool.

Search

The field is not available for search.

Notes

The upgrade_schedule_active cannot be updated.

upgrade_schedule_active cannot be written.

upgrade_state

`upgrade_state`

The upgrade state of the Grid.

Type

String.

Valid values are:

- NONE
- PROGRESSING

Search

The field is not available for search.

Notes

The upgrade_state is part of the base object.

The upgrade_state cannot be updated.

upgrade_state cannot be written.

upgrade_test_status

upgrade_test_status

The upgrade test status of the Grid.

Type

String.

Valid values are:

- COMPLETED
- FAILED
- NONE
- PROGRESSING

Search

The field is not available for search.

Notes

The upgrade_test_status is part of the base object.

The upgrade_test_status cannot be updated.

upgrade_test_status cannot be written.

upload_version

upload_version

The version that is uploaded.

Type

String.

Search

The field is not available for search.

Notes

The upload_version is part of the base object.

The upload_version cannot be updated.

upload_version cannot be written.

upload_version_summary

upload_version_summary

Upload version summary for the ‘type’ requested. This field can be

requested for the Grid, a certain group that has virtual nodes as subelements, or overall group status.

Type

String.

Search

The field is not available for search.

Notes

The upload_version_summary cannot be updated.

upload_version_summary cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
allow_distribution	Bool	N	Y	N	N/A
allow_distribution_scheduling	Bool	N	Y	N	N/A
allow_upgrade	Bool	N	Y	N	N/A
allow_upgrade_cancel	Bool	N	Y	N	N/A
allow_upgrade_pause	Bool	N	Y	N	N/A
allow_upgrade_resume	Bool	N	Y	N	N/A
allow_upgrade_scheduling	Bool	N	Y	N	N/A
allow_upgrade_test	Bool	N	Y	N	N/A
allow_upload	Bool	N	Y	N	N/A
alternate_version	String	N	Y	Y	N/A
comment	String	N	Y	Y	N/A
current_version	String	N	Y	Y	N/A
current_version_summary	String	N	Y	N	N/A
distribution_schedule_active	Bool	N	Y	N	N/A
distribution_schedule_time	Timestamp	N	Y	N	N/A
distribution_state	String	N	Y	N	N/A
distribution_version	String	N	Y	Y	N/A
distribution_version_summary	String	N	Y	N	N/A
element_status	String	N	Y	Y	N/A
grid_state	String	N	Y	Y	N/A
group_state	String	N	Y	Y	N/A
ha_status	String	N	Y	Y	N/A
hotfixes	[struct]	N	Y	Y	N/A
ipv4_address	String	N	Y	Y	N/A
ipv6_address	String	N	Y	Y	N/A
member	String	N	Y	Y	=
message	String	N	Y	Y	N/A
pnode_role	String	N	Y	Y	N/A
reverted	Bool	N	Y	Y	N/A
status_time	Timestamp	N	Y	N	N/A
status_value	String	N	Y	Y	N/A

status_value_update_time	Timestamp	N	Y	Y	N/A
steps	[struct]	N	Y	Y	N/A
steps_completed	Integer	N	Y	Y	N/A
steps_total	Integer	N	Y	Y	N/A
subelement_type	String	N	Y	N	=
subelements_completed	Integer	N	Y	N	N/A
subelements_status	[obj]	N	N	N	N/A
subelements_total	Integer	N	Y	N	N/A
type	String	N	Y	Y	=
upgrade_group	String	N	Y	Y	=
upgrade_schedule_active	Bool	N	Y	N	N/A
upgrade_state	String	N	Y	Y	N/A
upgrade_test_status	String	N	Y	Y	N/A
upload_version	String	N	Y	Y	N/A
upload_version_summary	String	N	Y	N	N/A

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userprofile : User profile object.

The user profile of the admin who has logged in.

Object Reference

References to userprofile are object references.

The *name* part of the userprofile object reference has the following components:

- The name of the user who has logged in.

Example:

userprofile/Li51c2VyX3Byb2ZpbGUkMjI:admin

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **name**.

active_dashboard_type

`active_dashboard_type`

Determines the active dashboard type.

Type

String.

Valid values are:

- INFO
- TASK

Create

The default value is *undefined*.

Search

The field is not available for search.

admin_group

admin_group

The Admin Group object to which the admin belongs. An admin user can belong to only one admin group at a time.

Type

String.

Search

The field is not available for search.

Notes

The admin_group cannot be updated.

admin_group cannot be written.

days_to_expire

days_to_expire

The number of days left before the admin's password expires.

Type

Integer.

Search

The field is not available for search.

Notes

The days_to_expire cannot be updated.

days_to_expire cannot be written.

email

email

The email address of the admin.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

global_search_on_ea

`global_search_on_ea`

Determines if extensible attribute values will be returned by global search or not.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

global_search_on_ni_data

`global_search_on_ni_data`

Determines if global search will search for network insight devices and interfaces or not.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

grid_admin_groups

`grid_admin_groups`

List of Admin Group objects that the current user is mapped to.

Type

String array.

Search

The field is not available for search.

Notes

The grid_admin_groups cannot be updated.

grid_admin_groups cannot be written.

last_login

`last_login`

The timestamp when the admin last logged in.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_login cannot be updated.

last_login cannot be written.

lb_tree_nodes_at_gen_level

`lb_tree_nodes_at_gen_level`

Determines how many nodes are displayed at generation levels.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

lb_tree_nodes_at_last_level

`lb_tree_nodes_at_last_level`

Determines how many nodes are displayed at the last level.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

max_count_widgets

`max_count_widgets`

The maximum count of widgets that can be added to one dashboard.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

name

`name`

The admin name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

old_password

`old_password`

The current password that will be replaced by a new password. To change a password in the database, you must provide both the current and new password values. This is a write-only attribute.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

old_password is not readable.

password

`password`

The new password of the admin. To change a password in the database, you must provide both the current and new password values. This is a write-only attribute.

Type

String.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

password is not readable.

table_size

`table_size`

The number of lines of data a table or a single list view can contain.

Type

Unsigned integer.

Create

The default value is *undefined*.

Search

The field is not available for search.

time_zone

`time_zone`

The time zone of the admin user.

Type

String.

Create

The default value is *Empty value*.

Search

The field is not available for search.

Notes

time_zone is associated with the field use_time_zone (see use flag).

use_time_zone

`use_time_zone`

Use flag for: time_zone

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

user_type

`user_type`

The admin type.

Type

String.

Valid values are:

- LOCAL
- REMOTE

Search

The field is not available for search.

Notes

The user_type cannot be updated.

user_type cannot be written.

Fields List

Field	Type	Req	R/O	Base	Search
active_dashboard_type	String	N	N	N	N/A
admin_group	String	N	Y	N	N/A
days_to_expire	Integer	N	Y	N	N/A
email	String	N	N	N	N/A
global_search_on_ea	Bool	N	N	N	N/A
global_search_on_ni_data	Bool	N	N	N	N/A
grid_admin_groups	[String]	N	Y	N	N/A
last_login	Timestamp	N	Y	N	N/A
lb_tree_nodes_at_gen_level	Unsigned int	N	N	N	N/A
lb_tree_nodes_at_last_level	Unsigned int	N	N	N	N/A
max_count_widgets	Unsigned int	N	N	N	N/A
name	String	N	Y	Y	N/A
old_password	String	N	N	N	N/A
password	String	N	N	N	N/A
table_size	Unsigned int	N	N	N	N/A
time_zone	String	N	N	N	N/A
use_time_zone	Bool	N	N	N	N/A
user_type	String	N	Y	N	N/A

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vdiscoverytask : Discovery task object.

This object represents vDiscovery Task.

Object Reference

References to vdiscoverytask are object references.

The *name* part of a vDiscovery Task object reference has the following components:

- The name of the Task.

Example (using _ref or UUID):

```
# Using _ref vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayR0YXNrMTA:task10

# Using UUID vdiscoverytask/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **govcloud_enabled, name, state, sync_child_accounts, uuid**.

The following fields are required to create this object:

Field	Notes
auto_consolidate_cloud_ea	
auto_consolidate_managed_tenant	
auto_consolidate_managed_vm	
auto_create_dns_hostname_template	See the field description for more information
auto_create_dns_record_type	See the field description for more information
cdiscovery_file_token	See the field description for more information
dns_view_private_ip	See the field description for more information
dns_view_public_ip	See the field description for more information
domain_name	See the field description for more information
driver_type	

identity_version	The field is required when driver_type is OPENSTACK.
member	
merge_data	
name	
password	The field is required when credentials_type is DIRECT.
private_network_view_mapping_policy	
public_network_view_mapping_policy	
selected_regions	See the field description for more information
service_account_file_token	See the field description for more information
update_metadata	
use_identity	See the field description for more information
username	The field is required when credentials_type is DIRECT.

accounts_list

`accounts_list`

The AWS Account IDs or GCP Project IDs list associated with this task.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

The accounts_list cannot be updated.

accounts_list cannot be written.

allow_unsecured_connection

`allow_unsecured_connection`

Allow unsecured connection over HTTPS and bypass validation of the remote SSL certificate.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

auto_consolidate_cloud_ea

auto_consolidate_cloud_ea

Whether to insert or update cloud EAs with discovery data.

Type

Bool.

Create

The field is required on creation.

Search

The field is not available for search.

auto_consolidate_managed_tenant

auto_consolidate_managed_tenant

Whether to replace managed tenant with discovery tenant data.

Type

Bool.

Create

The field is required on creation.

Search

The field is not available for search.

auto_consolidate_managed_vm

auto_consolidate_managed_vm

Whether to replace managed virtual machine with discovery vm data.

Type

Bool.

Create

The field is required on creation.

Search

The field is not available for search.

auto_create_dns_hostname_template

auto_create_dns_hostname_template

Template string used to generate host name.

Type

String.

Create

The field is required when auto_create_dns_record is set.

Search

The field is not available for search.

auto_create_dns_record

`auto_create_dns_record`

Control whether to create or update DNS record using discovered data.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is not available for search.

auto_create_dns_record_type

`auto_create_dns_record_type`

Indicates the type of record to create if the auto create DNS record is enabled.

Type

String.

Valid values are:

- A_PTR_RECORD
- HOST_RECORD

Create

The field is required when auto_create_dns_record is set.

Search

The field is not available for search.

cdiscovery_file_token

`cdiscovery_file_token`

The AWS account IDs or GCP Project IDs file's token.

Type

String.

Create

The cdiscovery_file_token is required if multiple_accounts_sync_policy is set to UPLOAD

Search

The field is not available for search.

comment

`comment`

Comment on the task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

credentials_type

`credentials_type`

Credentials type used for connecting to the cloud management platform.

Type

String.

Valid values are:

- DIRECT
- INDIRECT

Create

The default value is *undefined*.

Search

The field is not available for search.

dns_view_private_ip

`dns_view_private_ip`

The DNS view name for private IPs.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

If you configure this option, you must also set update_dns_view_private_ip to True. Otherwise, set update_dns_view_private_ip to False.

Search

The field is available for search via

- '=' (exact equality)

dns_view_public_ip

`dns_view_public_ip`

The DNS view name for public IPs.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

If you configure this option, you must also set update_dns_view_public_ip to True. Otherwise, set update_dns_view_public_ip to False.

Search

The field is available for search via

- '=' (exact equality)

domain_name

`domain_name`

The name of the domain to use with keystone v3.

Type

String.

Create

The field is required when identity_version is KEYSTONE_V3.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

driver_type

`driver_type`

Type of discovery driver.

Type

String.

Valid values are:

- AWS
- AZURE
- GCP
- OPENSTACK
- VMWARE

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

enable_filter

`enable_filter`

Enable filter for cloud discovery task

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

enabled

`enabled`

Whether to enabled the cloud discovery or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is available for search via

- '=' (exact equality)

fqdn_or_ip

`fqdn_or_ip`

FQDN or IP of the cloud management platform.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

govcloud_enabled

`govcloud_enabled`

Indicates if gov cloud is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The govcloud_enabled is part of the base object.

identity_version

`identity_version`

Identity service version.

Type

String.

Valid values are:

- KEYSTONE_V2
- KEYSTONE_V3

Create

The field is required when driver_type is OPENSTACK.

Search

The field is available for search via

- '=' (exact equality)

last_run

`last_run`

Timestamp of last run.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_run cannot be updated.

last_run cannot be written.

member

`member`

Member on which cloud discovery will be run.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

merge_data

`merge_data`

Whether to replace the old data with new or not.

Type

Bool.

Create

The field is required on creation.

Search

The field is not available for search.

multiple_accounts_sync_policy

`multiple_accounts_sync_policy`

Discover all child accounts or Upload child account ids to discover..

Type

String.

Valid values are:

- DISCOVER
- UPLOAD

Create

The default value is *DISCOVER*.

Search

The field is available for search via

- '=' (exact equality)

name

`name`

Name of this cloud discovery task. Uniquely identify a task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_filter

`network_filter`

Options to filter the networks in cdiscovery task.

Type

String.

Valid values are:

- EXCLUDE
- INCLUDE
- NONE

Create

The default value is *NONE*.

Search

The field is available for search via

- '=' (exact equality)

network_list

`network_list`

List of networks to filter in cdiscovery task.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

password

`password`

Password used for connecting to the cloud management platform.

Type

String.

Create

The field is required when credentials_type is DIRECT.

Search

The field is not available for search.

Notes

password is not readable.

port

port

Connection port used for connecting to the cloud management platform.

Type

Unsigned integer.

Create

The default value is *443*.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '!=' (negative search)
- '=' (exact equality)

private_network_view

private_network_view

Network view for private IPs.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

private_network_view_mapping_policy

private_network_view_mapping_policy

Mapping policy for the network view for private IPs in discovery data.

Type

String.

Valid values are:

- AUTO_CREATE
- DIRECT

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

protocol

`protocol`

Connection protocol used for connecting to the cloud management platform.

Type

String.

Valid values are:

- HTTP
- HTTPS

Create

The default value is *HTTPS*.

Search

The field is available for search via

- '=' (exact equality)

public_network_view

`public_network_view`

Network view for public IPs.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

public_network_view_mapping_policy

`public_network_view_mapping_policy`

Mapping policy for the network view for public IPs in discovery data.

Type

String.

Valid values are:

- AUTO_CREATE
- DIRECT

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

role_arn

`role_arn`

Role ARN for syncing child accounts; maximum 128 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

scheduled_run

`scheduled_run`

Schedule setting for cloud discovery task.

Type

A/An Schedule Setting struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

selected_regions

`selected_regions`

String containing selected regions for discovery in comma separated format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

selected_regions is required when the driver_type is AWS.

Search

The field is available for search via

- '=' (exact equality)

service_account_file

`service_account_file`

The service_account_file for GCP.

Type

String.

Create

The default value is *undefined*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

service_account_file_token

`service_account_file_token`

Service account file's token.

Type

String.

Create

The service_account_file token is required for GCP vdiscovery jobs

Search

The field is not available for search.

state

`state`

Current state of this task.

Type

String.

Valid values are:

- CANCEL_COMPLETE
- CANCEL_PENDING
- COMPLETE
- ERROR
- IDLE
- READY
- RUNNING
- WARNING

Search

The field is available for search via

- '=' (exact equality)

Notes

The state is part of the base object.

The state cannot be updated.

state cannot be written.

state_msg

`state_msg`

State message of the complete discovery process.

Type

String.

Search

The field is not available for search.

Notes

The state_msg cannot be updated.

state_msg cannot be written.

sync_child_accounts

`sync_child_accounts`

Synchronizing child accounts is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The sync_child_accounts is part of the base object.

update_dns_view_private_ip

`update_dns_view_private_ip`

If set to true, the appliance uses a specific DNS view for private IPs.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

update_dns_view_public_ip

`update_dns_view_public_ip`

If set to true, the appliance uses a specific DNS view for public IPs.

Type

Bool.

Create

The default value is *undefined*.

Search

The field is available for search via

- '=' (exact equality)

update_metadata

`update_metadata`

Whether to update metadata as a result of this network discovery.

Type

Bool.

Create

The field is required on creation.

Search

The field is not available for search.

use_identity

`use_identity`

If set true, all keystone connection will use “/identity” endpoint and port value will be ignored.

Type

Bool.

Create

The field is required when driver_type is OPENSTACK. The default value is False

Search

The field is available for search via

- ‘=’ (exact equality)

username

`username`

Username used for connecting to the cloud management platform.

Type

String.

Create

The field is required when credentials_type is DIRECT.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

vdiscovery_control

This function provides the following control to a cloud discovery task : start a task and cancel a task.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “START”, “CANCEL”) Action being requested.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
accounts_list	String	N	Y	N	=
allow_unsecured_connection	Bool	N	N	N	N/A
auto_consolidate_cloud_ea	Bool	Y	N	N	N/A
auto_consolidate_managed_tenant	Bool	Y	N	N	N/A
auto_consolidate_managed_vm	Bool	Y	N	N	N/A
auto_create_dns_hostname_template	String	Y*	N	N	N/A
auto_create_dns_record	Bool	N	N	N	N/A
auto_create_dns_record_type	String	Y*	N	N	N/A
cdiscovery_file_token	String	Y*	N	N	N/A
comment	String	N	N	N	N/A
credentials_type	String	N	N	N	N/A
dns_view_private_ip	String	Y*	N	N	=
dns_view_public_ip	String	Y*	N	N	=
domain_name	String	Y*	N	N	: = ~
driver_type	String	Y	N	N	=
enable_filter	Bool	N	N	N	=
enabled	Bool	N	N	N	=
fqdn_or_ip	String	Y*	N	N	: = ~
govcloud_enabled	Bool	N	N	Y	=
identity_version	String	Y*	N	N	=
last_run	Timestamp	N	Y	N	N/A
member	String	Y	N	N	=
merge_data	Bool	Y	N	N	N/A

multiple_accounts_sync_policy	String	N	N	N	=
name	String	Y	N	Y	: = ~
network_filter	String	N	N	N	=
network_list	[String]	N	N	N	N/A
password	String	Y*	N	N	N/A
port	Unsigned int	N	N	N	! < = >
private_network_view	String	N	N	N	=
private_network_view_mapping_policy	String	Y	N	N	=
protocol	String	N	N	N	=
public_network_view	String	N	N	N	=
public_network_view_mapping_policy	String	Y	N	N	=
role_arn	String	N	N	N	: = ~
scheduled_run	struct	N	N	N	N/A
selected_regions	String	Y*	N	N	=
service_account_file	String	Y*	N	N	: = ~
service_account_file_token	String	Y*	N	N	N/A
state	String	N	Y	Y	=
state_msg	String	N	Y	N	N/A
sync_child_accounts	Bool	N	N	Y	=
update_dns_view_private_ip	Bool	N	N	N	=
update_dns_view_public_ip	Bool	N	N	N	=
update_metadata	Bool	Y	N	N	N/A
use_identity	Bool	Y*	N	N	=
username	String	Y*	N	N	: = ~
uuid	String	N	Y	Y	: = ~

* Required in some cases, see detailed field description above.

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infoblox

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view : DNS View object.

DNS views provide the ability to serve one version of DNS data to one set of clients and another version to another set of clients. With DNS views, the appliance can provide a different answer to the same query, depending on the source of the query.

Object Reference

References to view are object references. The *name* part of a view object reference has the following components:

- Name of DNS view
- Displays ‘true’ for the default DNS view, ‘false’ otherwise

Example (using _ref or UUID):

```
# Using _ref view/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default/true

# Using UUID view/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- CSV export

In addition the object does not support the following operations when managed on Cloud Platform members:

- Create (insert)
- Delete
- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **comment, is_default, name, uuid**.

The following fields are required to create this object:

Field	Notes
name	

NOTE:

A named ACL (Access Control List) is a list of IPv4/IPv6 addresses, networks, TSIG-based anonymous access controls, and other named ACLs. Only one named ACL is allowed for each field.

blacklist_action

`blacklist_action`

The action to perform when a domain name matches the pattern defined in a rule that is specified by the blacklist_ruleset method. Valid values are “REDIRECT” or “REFUSE”. The default value is “REDIRECT”.

Type

String.

Valid values are:

- REDIRECT
- REFUSE

Create

The default value is *REDIRECT*.

Search

The field is available for search via

- '=' (exact equality)

Notes

blacklist_action is associated with the field use_blacklist (see use flag).

blacklist_log_query

`blacklist_log_query`

The flag that indicates whether blacklist redirection queries are logged. Specify "true" to enable logging, or "false" to disable it. The default value is "false".

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

blacklist_log_query is associated with the field use_blacklist (see use flag).

blacklist_redirect_addresses

`blacklist_redirect_addresses`

The array of IP addresses the appliance includes in the response it sends in place of a blacklisted IP address.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

blacklist_redirect_addresses is associated with the field use_blacklist (see use flag).

blacklist_redirect_ttl

`blacklist_redirect_ttl`

The Time To Live (TTL) value of the synthetic DNS responses resulted from blacklist redirection. The TTL value is a 32-bit unsigned integer that represents the TTL in seconds.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

blacklist_redirect_ttl is associated with the field use_blacklist (see use flag).

blacklist_rulesets

`blacklist_rulesets`

The name of the Ruleset object assigned at the Grid level for blacklist redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

blacklist_rulesets is associated with the field use_blacklist (see use flag).

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the DNS view; maximum 64 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The comment is part of the base object.

custom_root_name_servers

`custom_root_name_servers`

The list of customized root name servers. You can either select and use Internet root name servers or specify custom root name servers by providing a host name and IP address to which the Infoblox appliance can send queries. Include the specified parameter to set the attribute value. Omit the parameter to retrieve the attribute value.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

custom_root_name_servers is associated with the field use_root_name_server (see use flag).

ddns_force_creation_timestamp_update

ddns_force_creation_timestamp_update

Defines whether creation timestamp of RR should be updated ‘ when DDNS update happens even if there is no change to ‘ the RR.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_force_creation_timestamp_update is associated with the field use_ddns_force_creation_timestamp_update (see use flag).

ddns_principal_group

ddns_principal_group

The DDNS Principal cluster group name.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_principal_group is associated with the field use_ddns_principal_security (see use flag).

ddns_principal_tracking

ddns_principal_tracking

The flag that indicates whether the DDNS principal track is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_principal_tracking is associated with the field use_ddns_principal_security (see use flag).

ddns_restrict_patterns

ddns_restrict_patterns

The flag that indicates whether an option to restrict DDNS update request based on FQDN patterns is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_patterns is associated with the field use_ddns_patterns_restriction (see use flag).

ddns_restrict_patterns_list

ddns_restrict_patterns_list

The unordered list of restriction patterns for an option of to restrict DDNS updates based on FQDN patterns.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_restrict_patterns_list is associated with the field use_ddns_patterns_restriction (see use flag).

ddns_restrict_protected

ddns_restrict_protected

The flag that indicates whether an option to restrict DDNS update request to protected resource records is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_protected is associated with the field use_ddns_restrict_protected (see use flag).

ddns_restrict_secure

`ddns_restrict_secure`

The flag that indicates whether DDNS update request for principal other than target resource record's principal is restricted.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_secure is associated with the field use_ddns_principal_security (see use flag).

ddns_restrict_static

`ddns_restrict_static`

The flag that indicates whether an option to restrict DDNS update request to resource records which are marked as 'STATIC' is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_static is associated with the field use_ddns_restrict_static (see use flag).

disable

`disable`

Determines if the DNS view is disabled or not. When this is set to False, the DNS view is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns64_enabled

`dns64_enabled`

Determines if the DNS64 s enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

dns64_enabled is associated with the field use_dns64 (see use flag).

dns64_groups

`dns64_groups`

The list of DNS64 synthesis groups associated with this DNS view.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

dns64_groups is associated with the field use_dns64 (see use flag).

dnssec_enabled

`dnssec_enabled`

Determines if the DNS security extension is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

dnssec_enabled is associated with the field use_dnssec (see use flag).

dnssec_expired_signatures_enabled

`dnssec_expired_signatures_enabled`

Determines if the DNS security extension accepts expired signatures or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

dnssec_expired_signatures_enabled is associated with the field use_dnssec (see use flag).

dnssec_negative_trust_anchors

`dnssec_negative_trust_anchors`

A list of zones for which the server does not perform DNSSEC validation.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

dnssec_trusted_keys

dnssec_trusted_keys

The list of trusted keys for the DNS security extension.

Type

A/An DNSSEC Trusted Key struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

dnssec_trusted_keys is associated with the field use_dnssec (see use flag).

dnssec_validation_enabled

dnssec_validation_enabled

Determines if the DNS security validation is enabled or not.

Type

Bool.

Create

The default value is *True*.

Search

The field is available for search via

- '=' (exact equality)

Notes

dnssec_validation_enabled is associated with the field use_dnssec (see use flag).

edns_udp_size

edns_udp_size

Advertises the EDNS0 buffer size to the upstream server. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

Notes

edns_udp_size is associated with the field use_edns_udp_size (see use flag).

enable_blacklist

`enable_blacklist`

Determines if the blacklist in a DNS view is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

enable_blacklist is associated with the field use_blacklist (see use flag).

enable_fixed_rrset_order_fqdns

`enable_fixed_rrset_order_fqdns`

Determines if the fixed RRset order FQDN is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

enable_fixed_rrset_order_fqdns is associated with the field use_fixed_rrset_order_fqdns (see use flag).

enable_match_recursive_only

`enable_match_recursive_only`

Determines if the 'match-recursive-only' option in a DNS view is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

filter_aaaa

`filter_aaaa`

The type of AAAA filtering for this DNS view object.

Type

String.

Valid values are:

- BREAK_DNSSEC
- NO
- YES

Create

The default value is *NO*.

Search

The field is available for search via

- '=' (exact equality)

Notes

filter_aaaa is associated with the field use_filter_aaaa (see use flag).

filter_aaaa_list

`filter_aaaa_list`

Applies AAAA filtering to a named ACL, or to a list of IPv4 addresses and networks

from which queries are received. This field does not allow TSIG keys.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

filter_aaaa_list is associated with the field use_filter_aaaa (see use flag).

fixed_rrset_order_fqdns

`fixed_rrset_order_fqdns`

The fixed RRset order FQDN. If this field does not contain an empty value, the appliance will automatically set the enable_fixed_rrset_order_fqdns field to 'true', unless the same request sets the enable field to 'false'.

Type

A/An Fixed RRset order FQDN struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

fixed_rrset_order_fqdns is associated with the field use_fixed_rrset_order_fqdns (see use flag).

forward_only

`forward_only`

Determines if this DNS view sends queries to forwarders only or not. When the value is True, queries are sent to forwarders only, and not to other internal or Internet root servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

forward_only is associated with the field use_forwarders (see use flag).

forwarders

`forwarders`

The list of forwarders for the DNS view. A forwarder is a name server to which other name servers first send their off-site queries. The forwarder builds up a cache of information, avoiding the need for other name servers to send queries off-site.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

forwarders is associated with the field use_forwarders (see use flag).

is_default

`is_default`

The NIOS appliance provides one default DNS view. You can rename the default view and change its settings, but you cannot delete it. There must always be at least one DNS view in the appliance.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

The is_default is part of the base object.

The is_default cannot be updated.

is_default cannot be written.

last_queried_acl

`last_queried_acl`

Determines last queried ACL for the specified IPv4 or IPv6 addresses and networks in scavenging settings.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

last_queried_acl is associated with the field use_scavenging_settings (see use flag).

match_clients

`match_clients`

A list of forwarders for the match clients. This list specifies a named ACL, or a list of IPv4/IPv6 addresses, networks, TSIG keys of clients that are allowed or denied access to the DNS view.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

match_destinations

`match_destinations`

A list of forwarders for the match destinations. This list specifies a name ACL, or a list of IPv4/IPv6 addresses, networks, TSIG keys of clients that are allowed or denied access to the DNS view.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

max_cache_ttl

`max_cache_ttl`

The maximum number of seconds to cache ordinary (positive) answers.

Type

Unsigned integer.

Create

The default value is *604800*.

Search

The field is not available for search.

Notes

max_cache_ttl is associated with the field use_max_cache_ttl (see use flag).

max_ncache_ttl

`max_ncache_ttl`

The maximum number of seconds to cache negative (NXDOMAIN) answers.

Type

Unsigned integer.

Create

The default value is *10800*.

Search

The field is not available for search.

Notes

max_ncache_ttl is associated with the field use_max_ncache_ttl (see use flag).

max_udp_size

`max_udp_size`

The value is used by authoritative DNS servers to never send DNS responses larger than the configured value. The value should be between 512 and 4096 bytes. The recommended value is between 512 and 1220 bytes.

Type

Unsigned integer.

Create

The default value is *1220*.

Search

The field is not available for search.

Notes

max_udp_size is associated with the field use_max_udp_size (see use flag).

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

name

`name`

Name of the DNS view.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

network_view

`network_view`

The name of the network view object associated with this DNS view.

Type

String.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

notify_delay

`notify_delay`

The number of seconds of delay the notify messages are sent to secondaries.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

nxdomain_log_query

`nxdomain_log_query`

The flag that indicates whether NXDOMAIN redirection queries are logged. Specify "true" to enable logging, or "false" to disable it. The default value is "false".

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

nxdomain_log_query is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect

`nxdomain_redirect`

Determines if NXDOMAIN redirection in a DNS view is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

nxdomain_redirect is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_addresses

`nxdomain_redirect_addresses`

The array with IPv4 addresses the appliance includes in the response it sends in place of an NXDOMAIN response.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_redirect_addresses is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_addresses_v6

`nxdomain_redirect_addresses_v6`

The array with IPv6 addresses the appliance includes in the response it sends in place of an NXDOMAIN response.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_redirect_addresses_v6 is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_redirect_ttl

`nxdomain_redirect_ttl`

The Time To Live (TTL) value of the synthetic DNS responses resulted from NXDOMAIN redirection. The TTL value is a 32-bit unsigned integer that represents

the TTL in seconds.

Type

Unsigned integer.

Create

The default value is *60*.

Search

The field is not available for search.

Notes

nxdomain_redirect_ttl is associated with the field use_nxdomain_redirect (see use flag).

nxdomain_rulesets

`nxdomain_rulesets`

The names of the Ruleset objects assigned at the grid level for NXDOMAIN redirection.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

nxdomain_rulesets is associated with the field use_nxdomain_redirect (see use flag).

recursion

`recursion`

Determines if recursion is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

Notes

recursion is associated with the field use_recursion (see use flag).

response_rate_limiting

response_rate_limiting

The response rate limiting settings for the DNS View.

Type

A/An DNS Response Rate Limiting struct.

Create

The default value is:

```
  { 'enable_rrl': False,
'log_only': False,
'responses_per_second': 100,
'slip': 2,
'window': 15}
```

Search

The field is not available for search.

Notes

response_rate_limiting is associated with the field use_response_rate_limiting (see use flag).

root_name_server_type

root_name_server_type

Determines the type of root name servers.

Type

String.

Valid values are:

- CUSTOM
- INTERNET

Create

The default value is *INTERNET*.

Search

The field is available for search via

- '=' (exact equality)

Notes

root_name_server_type is associated with the field use_root_name_server (see use flag).

rpz_drop_ip_rule_enabled

rpz_drop_ip_rule_enabled

Enables the appliance to ignore RPZ-IP triggers with prefix lengths less than the specified minimum prefix length.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_enabled is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv4

`rpz_drop_ip_rule_min_prefix_length_ipv4`

The minimum prefix length for IPv4 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv4 prefix length.

Type

Unsigned integer.

Create

The default value is *29*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv4 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv6

`rpz_drop_ip_rule_min_prefix_length_ipv6`

The minimum prefix length for IPv6 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv6 prefix length.

Type

Unsigned integer.

Create

The default value is *112*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv6 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_qname_wait_recurse

rpz_qname_wait_recurse

The flag that indicates whether recursive RPZ lookups are enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_qname_wait_recurse is associated with the field use_rpz_qname_wait_recurse (see use flag).

scavenging_settings

scavenging_settings

The scavenging settings.

Type

A/An DNS scavenging settings struct.

Create

The default value is:

```
  { 'ea_expression_list': [],
'enable_auto_reclamation': False,
'enable_recurrent_scavenging': False,
'enable_rr_last_queried': False,
'enable_scavenging': False,
'enable_zone_last_queried': False,
'expression_list': [],
'reclaim_associated_records': False}
```

Search

The field is not available for search.

Notes

scavenging_settings is associated with the field use_scavenging_settings (see use flag).

sortlist

sortlist

A sort list that determines the order of IP addresses in responses sent to DNS queries.

Type

A/An DNS Sortlist struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

sortlist is associated with the field use_sortlist (see use flag).

use_blacklist

`use_blacklist`

Use flag for: blacklist_action , blacklist_log_query, blacklist_redirect_addresses, blacklist_redirect_ttl, blacklist_rulesets, enable_blacklist

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_force_creation_timestamp_update

`use_ddns_force_creation_timestamp_update`

Use flag for: ddns_force_creation_timestamp_update

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_patterns_restriction

`use_ddns_patterns_restriction`

Use flag for: ddns_restrict_patterns_list , ddns_restrict_patterns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_principal_security

`use_ddns_principal_security`

Use flag for: ddns_restrict_secure , ddns_principal_tracking, ddns_principal_group

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_restrict_protected

`use_ddns_restrict_protected`

Use flag for: ddns_restrict_protected

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_restrict_static

`use_ddns_restrict_static`

Use flag for: ddns_restrict_static

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dns64

use_dns64

Use flag for: dns64_enabled , dns64_groups

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dnssec

use_dnssec

Use flag for: dnssec_enabled , dnssec_expired_signatures_enabled, dnssec_validation_enabled, dnssec_trusted_keys

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_edns_udp_size

use_edns_udp_size

Use flag for: edns_udp_size

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_filter_aaaa

use_filter_aaaa

Use flag for: filter_aaaa , filter_aaaa_list

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_fixed_rrset_order_fqdns

`use_fixed_rrset_order_fqdns`

Use flag for: fixed_rrset_order_fqdns , enable_fixed_rrset_order_fqdns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_forwarders

`use_forwarders`

Use flag for: forwarders , forward_only

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_cache_ttl

`use_max_cache_ttl`

Use flag for: max_cache_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_ncache_ttl

use_max_ncache_ttl

Use flag for: max_ncache_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_max_udp_size

use_max_udp_size

Use flag for: max_udp_size

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_nxdomain_redirect

use_nxdomain_redirect

Use flag for: nxdomain_redirect , nxdomain_redirect_addresses, nxdomain_redirect_addresses_v6, nxdomain_redirect_ttl, nxdomain_log_query, nxdomain_rulesets

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_recursion

use_recursion

Use flag for: recursion

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_response_rate_limiting

`use_response_rate_limiting`

Use flag for: response_rate_limiting

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_root_name_server

`use_root_name_server`

Use flag for: custom_root_name_servers , root_name_server_type

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_rpz_drop_ip_rule

`use_rpz_drop_ip_rule`

Use flag for: rpz_drop_ip_rule_enabled , rpz_drop_ip_rule_min_prefix_length_ipv4, rpz_drop_ip_rule_min_prefix_length_ipv6

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_rpz_qname_wait_recurse

use_rpz_qname_wait_recurse

Use flag for: rpz_qname_wait_recurse

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_scavenging_settings

use_scavenging_settings

Use flag for: scavenging_settings , last_queried_acl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_sortlist

use_sortlist

Use flag for: sortlist

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Function Calls

run_scavenging

This function performs the scavenging of the DNS Records.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: "ANALYZE", "RECLAIM", "ANALYZE_RECLAIM", "RESET"). This parameter is mandatory. The scavenging action to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
blacklist_action	String	N	N	N	=
blacklist_log_query	Bool	N	N	N	=
blacklist_redirect_addresses	[String]	N	N	N	N/A
blacklist_redirect_ttl	Unsigned int	N	N	N	N/A
blacklist_rulesets	[String]	N	N	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	Y	: = ~
custom_root_name_servers	[struct]	N	N	N	N/A
ddns_force_creation_timestamp_update	Bool	N	N	N	N/A
ddns_principal_group	String	N	N	N	N/A
ddns_principal_tracking	Bool	N	N	N	N/A
ddns_restrict_patterns	Bool	N	N	N	N/A
ddns_restrict_patterns_list	[String]	N	N	N	N/A
ddns_restrict_protected	Bool	N	N	N	N/A
ddns_restrict_secure	Bool	N	N	N	N/A
ddns_restrict_static	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
dns64_enabled	Bool	N	N	N	=
dns64_groups	[String]	N	N	N	N/A
dnssec_enabled	Bool	N	N	N	=

dnssec_expired_signatures_enabled	Bool	N	N	N	=
dnssec_negative_trust_anchors	[String]	N	N	N	N/A
dnssec_trusted_keys	[struct]	N	N	N	N/A
dnssec_validation_enabled	Bool	N	N	N	=
edns_udp_size	Unsigned int	N	N	N	N/A
enable_blacklist	Bool	N	N	N	=
enable_fixed_rrset_order_fqdns	Bool	N	N	N	N/A
enable_match_recursive_only	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
filter_aaaa	String	N	N	N	=
filter_aaaa_list	[struct]	N	N	N	N/A
fixed_rrset_order_fqdns	[struct]	N	N	N	N/A
forward_only	Bool	N	N	N	=
forwarders	[String]	N	N	N	N/A
is_default	Bool	N	Y	Y	=
last_queried_acl	[struct]	N	N	N	N/A
match_clients	[struct]	N	N	N	N/A
match_destinations	[struct]	N	N	N	N/A
max_cache_ttl	Unsigned int	N	N	N	N/A
max_ncache_ttl	Unsigned int	N	N	N	N/A
max_udp_size	Unsigned int	N	N	N	N/A
mgm_private	Bool	N	N	N	N/A
name	String	Y	N	Y	: = ~
network_view	String	N	N	N	=
notify_delay	Unsigned int	N	N	N	N/A
nxdomain_log_query	Bool	N	N	N	=
nxdomain_redirect	Bool	N	N	N	=
nxdomain_redirect_addresses	[String]	N	N	N	N/A
nxdomain_redirect_addresses_v6	[String]	N	N	N	N/A
nxdomain_redirect_ttl	Unsigned int	N	N	N	N/A
nxdomain_rulesets	[String]	N	N	N	N/A
recursion	Bool	N	N	N	=
response_rate_limiting	struct	N	N	N	N/A
root_name_server_type	String	N	N	N	=
rpz_drop_ip_rule_enabled	Bool	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv4	Unsigned int	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv6	Unsigned int	N	N	N	N/A
rpz_qname_wait_recurse	Bool	N	N	N	N/A
scavenging_settings	struct	N	N	N	N/A
sortlist	[struct]	N	N	N	N/A
use_blacklist	Bool	N	N	N	N/A
use_ddns_force_creation_timestamp_update	Bool	N	N	N	N/A
use_ddns_patterns_restriction	Bool	N	N	N	N/A
use_ddns_principal_security	Bool	N	N	N	N/A
use_ddns_restrict_protected	Bool	N	N	N	N/A
use_ddns_restrict_static	Bool	N	N	N	N/A

use_dns64	Bool	N	N	N	N/A
use_dnssec	Bool	N	N	N	N/A
use_edns_udp_size	Bool	N	N	N	N/A
use_filter_aaaa	Bool	N	N	N	N/A
use_fixed_rrset_order_fqdns	Bool	N	N	N	N/A
use_forwarders	Bool	N	N	N	N/A
use_max_cache_ttl	Bool	N	N	N	N/A
use_max_ncache_ttl	Bool	N	N	N	N/A
use_max_udp_size	Bool	N	N	N	N/A
use_nxdomain_redirect	Bool	N	N	N	N/A
use_recursion	Bool	N	N	N	N/A
use_response_rate_limiting	Bool	N	N	N	N/A
use_root_name_server	Bool	N	N	N	N/A
use_rpz_drop_ip_rule	Bool	N	N	N	N/A
use_rpz_qname_wait_recurse	Bool	N	N	N	N/A
use_scavenging_settings	Bool	N	N	N	N/A
use_sortlist	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~

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vlan : VLAN object.

Object Reference

References to vlan are object references.

The *name* part of the vlan object reference has the following components:

- Name of VLAN View or/and VLAN Range to which this VLAN belongs.
- Name of the VLAN.
- Id of the VLAN.

Example (using _ref or UUID):

Using _ref vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbn:vl_view1/vlan1/1
vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbn:vl_view1/vl_range1/vlan1/1

Using UUID vlan/123e4567e89b12d3a456426614174000

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **id, name, parent, uuid**.

The following fields are required to create this object:

Field	Notes
id	
name	
parent	

assigned_to

`assigned_to`

List of objects VLAN is assigned to.

Type

An array of the following objects: network, ipv6network.

This field supports nested return fields as described here.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The assigned_to cannot be updated.

assigned_to cannot be written.

comment

`comment`

A descriptive comment for this VLAN.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

contact

`contact`

Contact information for person/team managing or using VLAN.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

department

`department`

Department where VLAN is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

description

`description`

Description for the VLAN object, may be potentially used for longer VLAN names.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

id

`id`

VLAN ID value.

Type

Unsigned integer.

The field also supports automatic selection of the next available VLAN ID in the specified vlanview or vlanrange. You can specify the vlanview or vlanrange in the following way:

Using a vlanview or vlanrange WAPI reference:

- func:nextavailablevlanid:<reference>

Scheduled and approval operations are not supported when using the automatic VLAN ID selection.

When you specify a vlanview/vlanrange for automatic VLAN ID selection, you should also add a parent field in the object to be inserted with the same vlanview/vlanrange because the vlanview/vlanrange for automatic VLAN ID

selection is not used for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablevlanid:vlanview/ZG5zLnZsYW5fdmlldyRW:vl_view1/1/100
- func:nextavailablevlanid:vlanrange/ZG5zLm5ldHdvcmskMTAu:vl_view1/vl_range1/1/10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_vlan_id function call in object vlanview (default parameters: **{'num': 1}**)
- the next_available_vlan_id function call in object vlanrange (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)
- '!=' (negative search)

Notes

The id is part of the base object.

name

`name`

Name of the VLAN.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

parent

`parent`

The VLAN View or VLAN Range to which this VLAN belongs.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The parent is part of the base object.

reserved

`reserved`

When set VLAN can only be assigned to IPAM object manually.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

status

`status`

Status of VLAN object. Can be Assigned, Unassigned, Reserved.

Type

String.

Valid values are:
- ASSIGNED
- RESERVED
- UNASSIGNED

Search

The field is available for search via

- '=' (exact equality)

Notes

The status cannot be updated.

status cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

get_associations

`get_associations`

Option to return all associated VLANs from other VLAN Ranges.

Type

Bool.

Search

The field is available for search via

- '=' (exact equality)

Notes

get_associations is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
assigned_to	obj	N	Y	N	: = ~
comment	String	N	N	N	: = ~
contact	String	N	N	N	: = ~
department	String	N	N	N	: = ~
description	String	N	N	N	: = ~
extattrs	Extattr	N	N	N	ext
id	Unsigned int	Y	N	Y	! < = >
name	String	Y	N	Y	: = ~
parent	String	Y	N	Y	=
reserved	Bool	N	N	N	=
status	String	N	Y	N	=
uuid	String	N	Y	Y	: = ~

Search-only Fields List

Field	Type	Search
get_associations	Bool	=

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- Delete arguments
  - delete_vlans
- Fields List
- Delete Arguments List

Previous topic

vlan : VLAN object.

Next topic

vlanview : VLAN View object.

vlanrange : VLAN Range object.

Object Reference

References to vlanrange are object references.

The *name* part of the vlanrange object reference has the following components:

- Name of the VLAN View to which this VLAN Range belongs.
- Name of the VLAN Range.
- Start vlan id of the VLAN Range.
- End vlan id of the VLAN Range.

Example (using _ref or UUID):

```
# Using _ref vlanrange/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:vl_view1/vl_range1/1/10

# Using UUID vlanrange/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **end_vlan_id, name, start_vlan_id, uuid, vlan_view**.

The following fields are required to create this object:

Field	Notes
end_vlan_id	
name	
pre_create_vlan	This can be specified only on creation
start_vlan_id	
vlan_name_prefix	This can be specified only on creation
vlan_view	

comment

`comment`

A descriptive comment for this VLAN Range.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

end_vlan_id

`end_vlan_id`

End ID for VLAN Range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)
- ‘!=’ (negative search)

Notes

The end_vlan_id is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name of the VLAN Range.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pre_create_vlan

`pre_create_vlan`

If set on creation VLAN objects will be created once VLAN Range created.

Type

Bool.

Create

The field is required and can be specifiedonly on creation.

Search

The field is not available for search.

start_vlan_id

`start_vlan_id`

Start ID for VLAN Range.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- ‘<=’ (less than search)
- ‘>=’ (greater than search)
- ‘=’ (exact equality)
- ‘!=’ (negative search)

Notes

The start_vlan_id is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vlan_name_prefix

`vlan_name_prefix`

If set on creation prefix string will be used for VLAN name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required and can be specifiedonly on creation.

Search

The field is not available for search.

vlan_view

`vlan_view`

The VLAN View to which this VLAN Range belongs.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

Notes

The vlan_view is part of the base object.

Function Calls

next_available_vlan_id

This function retrieves the next available VLAN IDs in the VLAN Range.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of VLAN IDs to exclude.

num (Unsigned integer.) The number of VLAN IDs you are requesting.

Output fields

vlan_ids (String array.) The requested VLAN IDs addresses.

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

delete_vlans

`delete_vlans`

Vlans delete option. Determines whether all child objects should be removed alongside with the VLAN Range or child objects should be assigned to another parental VLAN Range/View. By default child objects are re-parented.

Type

Bool.

Notes

delete_vlans is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
comment	String	N	N	N	: = ~
end_vlan_id	Unsigned int	Y	N	Y	! < = >
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
pre_create_vlan	Bool	N	N	N	N/A
start_vlan_id	Unsigned int	Y	N	Y	! < = >
uuid	String	N	Y	Y	: = ~
vlan_name_prefix	String	N	N	N	N/A
vlan_view	String	Y	N	Y	=

Delete Arguments List

Argument	Type
delete_vlans	Bool

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- Fields List

Previous topic

vlanrange : VLAN Range object.

Next topic

zone_auth : DNS Authoritative Zone object.

vlanview : VLAN View object.

Object Reference

References to vlanview are object references.

The *name* part of the vlanview object reference has the following components:

- Name of the VLAN View.
- Start vlan id of the VLAN View.
- End vlan id of the VLAN View.

Example (using _ref or UUID):

```
# Using _ref vlanview/ZG5zLnZsYW5fdmlldyRWbGFuVmlldy4xLjEwMA:vl_view1/1/100

# Using UUID vlanview/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **end_vlan_id, name, start_vlan_id, uuid**.

The following fields are required to create this object:

Field	Notes
end_vlan_id	
name	
pre_create_vlan	This can be specified only on creation
start_vlan_id	
vlan_name_prefix	This can be specified only on creation

allow_range_overlapping

`allow_range_overlapping`

When set to true VLAN Ranges under VLAN View can have overlapping ID.

Type

Bool.

Create

The default value is *False*.

Search

The field is available for search via

- '=' (exact equality)

comment

`comment`

A descriptive comment for this VLAN View.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

end_vlan_id

`end_vlan_id`

End ID for VLAN View.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)
- '!=' (negative search)

Notes

The end_vlan_id is part of the base object.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

name

`name`

Name of the VLAN View.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The name is part of the base object.

pre_create_vlan

`pre_create_vlan`

If set on creation VLAN objects will be created once VLAN View created.

Type

Bool.

Create

The field is required and can be specifiedonly on creation.

Search

The field is not available for search.

start_vlan_id

`start_vlan_id`

Start ID for VLAN View.

Type

Unsigned integer.

Create

The field is required on creation.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)
- '!=' (negative search)

Notes

The start_vlan_id is part of the base object.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

vlan_name_prefix

`vlan_name_prefix`

If set on creation prefix string will be used for VLAN name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required and can be specifiedonly on creation.

Search

The field is not available for search.

Function Calls

next_available_vlan_id

This function retrieves the next available VLAN IDs in the VLAN View.

This function supports multiple object matches when called as part of an atomic insertion operation.

Input fields

exclude (String array.) A list of VLAN IDs to exclude.

num (Unsigned integer.) The number of VLAN IDs you are requesting.

Output fields

vlan_ids (String array.) The requested VLAN IDs addresses.

Fields List

Field	Type	Req	R/O	Base	Search
allow_range_overlapping	Bool	N	N	N	=
comment	String	N	N	N	: = ~
end_vlan_id	Unsigned int	Y	N	Y	! < = >
extattrs	Extattr	N	N	N	ext
name	String	Y	N	Y	: = ~
pre_create_vlan	Bool	N	N	N	N/A
start_vlan_id	Unsigned int	Y	N	Y	! < = >
uuid	String	N	Y	Y	: = ~

vlan_name_prefix	String	N	N	N	N/A	

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zone_auth : DNS Authoritative Zone object.
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zone_auth : DNS Authoritative Zone object.

An authoritative zone is a zone for which the local (primary or secondary) server references its own data when responding to queries. The local server is authoritative for the data in this zone and responds to queries for this data without referencing another server.

If operating in a Cloud API environment and if the zone is in a delegated network view, grid_primary is a required field.

There are two types of authoritative zones:

- Forwarding-mapping: An authoritative forward-mapping zone is an area of domain name space for which one or more name servers have the responsibility to respond authoritatively to name-to-address queries.
- Reverse-mapping: A reverse-mapping zone is an area or network space for which one or more name servers have the responsibility to respond to address-to-name queries.

Object Reference

References to zone_auth are object references. The *name* part of a DNS Auth Zone object reference has the following components:

- FQDN of the zone
- Name of the view

Example:

```
# Using _ref zone_auth/ZG5zLmhvc3QkLl9kZWZhd3QuaDE:zone.com/default

# Using UUID zone_auth/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)

In addition the object does not support the following operations when managed on Cloud Platform members:

- Function calls

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **fqdn, uuid, view**.

The following fields are required to create this object:

Field	Notes
fqdn	

NOTE:

A named ACL (Access Control List) is a list of IPv4/IPv6 addresses, networks, TSIG-based anonymous access controls, and other named ACLs. Only one named ACL is allowed for each field.

address

`address`

The IP address of the server that is serving this zone.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

allow_active_dir

`allow_active_dir`

This field allows the zone to receive GSS-TSIG authenticated DDNS updates from DHCP clients and servers in an AD domain.

Note that addresses specified in this field ignore the permission set in the struct which will be set to 'ALLOW'.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_active_dir is associated with the field use_allow_active_dir (see use flag).

allow_fixed_rrset_order

`allow_fixed_rrset_order`

The flag that allows to enable or disable fixed RRset ordering for authoritative forward-mapping zones.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_gss_tsig_for_underscore_zone

`allow_gss_tsig_for_underscore_zone`

The flag that allows DHCP clients to perform GSS-TSIG signed updates for underscore zones.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_gss_tsig_zone_updates

`allow_gss_tsig_zone_updates`

The flag that enables or disables the zone for GSS-TSIG updates.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

allow_query

`allow_query`

Determines whether DNS queries are allowed from a named ACL, or from a list of IPv4/IPv6 addresses, networks, and TSIG keys for the hosts.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_query is associated with the field use_allow_query (see use flag).

allow_transfer

`allow_transfer`

Determines whether zone transfers are allowed from a named ACL, or from a list of IPv4/IPv6 addresses, networks, and TSIG keys for the hosts.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_transfer is associated with the field use_allow_transfer (see use flag).

allow_update

`allow_update`

Determines whether dynamic DNS updates are allowed from a named ACL, or from a list of IPv4/IPv6 addresses, networks, and TSIG keys for the hosts.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

allow_update is associated with the field use_allow_update (see use flag).

allow_update_forwarding

`allow_update_forwarding`

The list with IP addresses, networks or TSIG keys for clients, from which forwarded dynamic updates are allowed.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

allow_update_forwarding is associated with the field use_allow_update_forwarding (see use flag).

aws_rte53_zone_info

`aws_rte53_zone_info`

Additional information for Route53 zone.

Type

A/An 'Aws Rte53 Zone Info struct.

Search

The field is not available for search.

Notes

The aws_rte53_zone_info cannot be updated.

aws_rte53_zone_info cannot be written.

cloud_info

`cloud_info`

Structure containing all cloud API related information for this object.

Type

A/An Cloud Information struct.

Search

The field is not available for search.

Notes

The cloud_info cannot be updated.

cloud_info cannot be written.

comment

`comment`

Comment for the zone; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

copy_xfer_to_notify

copy_xfer_to_notify

If this flag is set to True then copy allowed IPs from Allow Transfer to Also Notify.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

copy_xfer_to_notify is associated with the field use_copy_xfer_to_notify (see use flag).

create_ptr_for_bulk_hosts

create_ptr_for_bulk_hosts

Determines if PTR records are created for hosts automatically, if necessary, when the zone data is imported. This field is meaningful only when import_from is set.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

create_ptr_for_bulk_hosts is not readable.

create_ptr_for_hosts

create_ptr_for_hosts

Determines if PTR records are created for hosts automatically, if necessary, when the zone data is imported. This field is meaningful only when import_from is set.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

create_ptr_for_hosts is not readable.

create_underscore_zones

`create_underscore_zones`

Determines whether automatic creation of subzones is enabled or not.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ddns_force_creation_timestamp_update

`ddns_force_creation_timestamp_update`

Defines whether creation timestamp of RR should be updated ‘ when DDNS update happens even if there is no change to ‘ the RR.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_force_creation_timestamp_update is associated with the field use_ddns_force_creation_timestamp_update (see use flag).

ddns_principal_group

`ddns_principal_group`

The DDNS Principal cluster group name.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_principal_group is associated with the field use_ddns_principal_security (see use flag).

ddns_principal_tracking

`ddns_principal_tracking`

The flag that indicates whether the DDNS principal track is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_principal_tracking is associated with the field use_ddns_principal_security (see use flag).

ddns_restrict_patterns

`ddns_restrict_patterns`

The flag that indicates whether an option to restrict DDNS update request based on FQDN patterns is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_patterns is associated with the field use_ddns_patterns_restriction (see use flag).

ddns_restrict_patterns_list

`ddns_restrict_patterns_list`

The unordered list of restriction patterns for an option of to restrict DDNS updates based on FQDN patterns.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

ddns_restrict_patterns_list is associated with the field use_ddns_patterns_restriction (see use flag).

ddns_restrict_protected

ddns_restrict_protected

The flag that indicates whether an option to restrict DDNS update request to protected resource records is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_protected is associated with the field use_ddns_restrict_protected (see use flag).

ddns_restrict_secure

ddns_restrict_secure

The flag that indicates whether DDNS update request for principal other than target resource record's principal is restricted.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_secure is associated with the field use_ddns_principal_security (see use flag).

ddns_restrict_static

`ddns_restrict_static`

The flag that indicates whether an option to restrict DDNS update request to resource records which are marked as ‘STATIC’ is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

ddns_restrict_static is associated with the field use_ddns_restrict_static (see use flag).

disable

`disable`

Determines whether a zone is disabled or not. When this is set to False, the zone is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_forwarding

`disable_forwarding`

Determines whether the name servers that host the zone should forward queries (ended with the domain name of the zone) to any configured forwarders.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_domain

`display_domain`

The displayed name of the DNS zone.

Type

String.

Search

The field is not available for search.

Notes

The display_domain cannot be updated.

display_domain cannot be written.

dns_fqdn

`dns_fqdn`

The name of this DNS zone in punycode format. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format in punycode format.

Type

String.

Search

The field is not available for search.

Notes

The dns_fqdn cannot be updated.

dns_fqdn cannot be written.

dns_integrity_enable

`dns_integrity_enable`

If this is set to True, DNS integrity check is enabled for this zone.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_integrity_frequency

`dns_integrity_frequency`

The frequency, in seconds, of DNS integrity checks for this zone.

Type

Unsigned integer.

Create

The default value is *3600*.

Search

The field is not available for search.

dns_integrity_member

dns_integrity_member

The Grid member that performs DNS integrity checks for this zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

dns_integrity_verbose_logging

dns_integrity_verbose_logging

If this is set to True, more information is logged for DNS integrity checks for this zone.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

dns_soa_email

dns_soa_email

The SOA email for the zone in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_soa_email cannot be updated.

dns_soa_email cannot be written.

dnssec_key_params

`dnssec_key_params`

This structure contains the DNSSEC key parameters for this zone.

Type

A/An DNSSEC Key parameters struct.

Create

The default value is:

```
  { 'enable_ksk_auto_rollover': False,
'ksk_algorithm': '8',
'ksk_algorithms': [{'algorithm': 'RSASHA256', 'size': 2048}],
'ksk_email_notification_enabled': False,
'ksk_rollover': 31536000,
'ksk_rollover_notification_config': 'REQUIRE_MANUAL_INTERVENTION',
'ksk_size': 2048,
'ksk_snmp_notification_enabled': True,
'next_secure_type': 'NSEC3',
'nsec3_iterations': 0,
'nsec3_salt_max_length': 0,
'nsec3_salt_min_length': 0,
'signature_expiration': 345600,
'zsk_algorithm': '8',
'zsk_algorithms': [{'algorithm': 'RSASHA256', 'size': 1024}],
'zsk_rollover': 2592000,
'zsk_rollover_mechanism': 'PRE_PUBLISH',
'zsk_size': 1024}
```

Search

The field is not available for search.

Notes

dnssec_key_params is associated with the field use_dnssec_key_params (see use flag).

dnssec_keys

`dnssec_keys`

A list of DNSSEC keys for the zone.

Type

A/An DNSSEC Key struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

dnssec_ksk_rollover_date

`dnssec_ksk_rollover_date`

The rollover date for the Key Signing Key.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The dnssec_ksk_rollover_date cannot be updated.

dnssec_ksk_rollover_date cannot be written.

dnssec_zsk_rollover_date

dnssec_zsk_rollover_date

The rollover date for the Zone Signing Key.

Type

Timestamp.

Search

The field is available for search via

- '<=' (less than search)
- '>=' (greater than search)
- '=' (exact equality)

Notes

The dnssec_zsk_rollover_date cannot be updated.

dnssec_zsk_rollover_date cannot be written.

do_host_abstraction

do_host_abstraction

Determines if hosts and bulk hosts are automatically created when the zone data is imported. This field is meaningful only when import_from is set.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

do_host_abstraction is not readable.

effective_check_names_policy

`effective_check_names_policy`

The value of the check names policy, which indicates the action the appliance takes when it encounters host names that do not comply with the Strict Hostname Checking policy. This value applies only if the host name restriction policy is set to “Strict Hostname Checking”.

Type

String.

Valid values are:

- FAIL
- WARN

Create

The default value is *WARN*.

Search

The field is not available for search.

effective_record_name_policy

`effective_record_name_policy`

The selected hostname policy for records under this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The effective_record_name_policy cannot be updated.

effective_record_name_policy cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_primaries

`external_primaries`

The list of external primary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

external_secondaries

`external_secondaries`

The list of external secondary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

fqdn

fqdn

The name of this DNS zone. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format. This value can be in unicode format.

Note that for a reverse zone, the corresponding zone_format value should be set.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

The fqdn is part of the base object.

The fqdn cannot be updated.

grid_primary

grid_primary

The grid primary servers for this zone.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

grid_primary_shared_with_ms_parent_delegation

grid_primary_shared_with_ms_parent_delegation

Determines if the server is duplicated with parent delegation.

Type

Bool.

Search

The field is not available for search.

Notes

The grid_primary_shared_with_ms_parent_delegation cannot be updated.

grid_primary_shared_with_ms_parent_delegation cannot be written.

grid_secondaries

grid_secondaries

The list with Grid members that are secondary servers for this zone.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

import_from

`import_from`

The IP address of the Infoblox appliance from which zone data is imported. Setting this address to '255.255.255.255' and do_host_abstraction to 'true' will create Host records from A records in this zone without importing zone data.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

import_from is associated with the field use_import_from (see use flag).

import_from is not readable.

is_dnssec_enabled

`is_dnssec_enabled`

This flag is set to True if DNSSEC is enabled for the zone.

Type

Bool.

Search

The field is not available for search.

Notes

The is_dnssec_enabled cannot be updated.

is_dnssec_enabled cannot be written.

is_dnssec_signed

`is_dnssec_signed`

Determines if the zone is DNSSEC signed.

Type

Bool.

Search

The field is not available for search.

Notes

The is_dnssec_signed cannot be updated.

is_dnssec_signed cannot be written.

is_multimaster

`is_multimaster`

Determines if multi-master DNS is enabled for the zone.

Type

Bool.

Search

The field is not available for search.

Notes

The is_multimaster cannot be updated.

is_multimaster cannot be written.

last_queried

`last_queried`

The time the zone was last queried on.

Type

Timestamp.

Search

The field is not available for search.

Notes

The last_queried cannot be updated.

last_queried cannot be written.

last_queried_acl

`last_queried_acl`

Determines last queried ACL for the specified IPv4 or IPv6 addresses and networks in scavenging settings.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

Notes

last_queried_acl is associated with the field use_scavenging_settings (see use flag).

locked

locked

If you enable this flag, other administrators cannot make conflicting changes. This is for administration purposes only. The zone will continue to serve DNS data even when it is locked.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

locked_by

locked_by

The name of a superuser or the administrator who locked this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The locked_by cannot be updated.

locked_by cannot be written.

mask_prefix

mask_prefix

IPv4 Netmask or IPv6 prefix for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mask_prefix cannot be updated.

mask_prefix cannot be written.

member_soa_mnames

member_soa_mnames

The list of per-member SOA MNAME information.

Type

A/An Per-master SOA MNAME Information struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

member_soa_serials

member_soa_serials

The list of per-member SOA serial information.

Type

A/An Per-master SOA Serial Information struct array.

Search

The field is not available for search.

Notes

The member_soa_serials cannot be updated.

member_soa_serials cannot be written.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_integrated

`ms_ad_integrated`

The flag that determines whether Active Directory is integrated or not. This field is valid only when ms_managed is “STUB”, “AUTH_PRIMARY”, or “AUTH_BOTH”.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_allow_transfer

`ms_allow_transfer`

The list of DNS clients that are allowed to perform zone transfers from a Microsoft DNS server.

This setting applies only to zones with Microsoft DNS servers that are either primary or secondary servers. This setting does not inherit any value from the Grid or from any member that defines an allow_transfer value. This setting does not apply to any grid member. Use the allow_transfer field to control which DNS clients are allowed to perform zone transfers on Grid members.

Type

A/An Address ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ms_allow_transfer_mode

`ms_allow_transfer_mode`

Determines which DNS clients are allowed to perform zone transfers from a Microsoft DNS server.

Valid values are:

“ADDRESS_AC”, to use ms_allow_transfer field for specifying IP addresses, networks and Transaction Signature (TSIG) keys for clients that are allowed to do zone transfers.

“ANY”, to allow any client.

“ANY_NS”, to allow only the nameservers listed in this zone.

“NONE”, to deny all zone transfer requests.

Type

String.

Valid values are:

- ADDRESS_AC
- ANY
- ANY_NS
- NONE

Create

The default value is *NONE*.

Search

The field is not available for search.

ms_dc_ns_record_creation

`ms_dc_ns_record_creation`

The list of domain controllers that are allowed to create NS records for authoritative zones.

Type

A/An An Infoblox Active Directory Domain Controller object struct array.

The field also supports automatic selection of the domain controllers list based on the specified Auth Zone or MS Server. You can specify the source object in the following ways:

Using the IP addresses of all MS Servers belonging to the same Active Directory domain as the MS Server which is specified by reference or address:

- func:getdcnsrecordcreationlist:SERVERS_IN_DOMAIN,<reference>
- func:getdcnsrecordcreationlist:SERVERS_IN_DOMAIN,<address>

Using the list from an existing Active Directory zone which is specified by reference or fqdn/view (optional, if the view is not specified, the default view will be used):

- func:getdcnsrecordcreationlist:ZONE,<reference>
- func:getdcnsrecordcreationlist:ZONE,<fqdn>[,<view>]

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:getdcnsrecordcreationlist:SERVERS_IN_DOMAIN,msserver/ZG54dfgsrDEFfsfsLzA:10.0.0.1
- func:getdcnsrecordcreationlist:SERVERS_IN_DOMAIN,10.0.0.1
- func:getdcnsrecordcreationlist:ZONE,auth_zone/ZG54dfgsrDEFfsfsLzA:zone.com/default
- func:getdcnsrecordcreationlist:ZONE,zone.com,external

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ms_ddns_mode

ms_ddns_mode

Determines whether an Active Directory-integrated zone with a Microsoft DNS server as primary allows dynamic updates. Valid values are:

“SECURE” if the zone allows secure updates only.

“NONE” if the zone forbids dynamic updates.

“ANY” if the zone accepts both secure and nonsecure updates.

This field is valid only if ms_managed is either “AUTH_PRIMARY” or “AUTH_BOTH”. If the flag ms_ad_integrated is false, the value “SECURE” is not allowed.

Type

String.

Valid values are:

- ANY
- NONE
- SECURE

Create

The default value is *NONE*.

Search

The field is not available for search.

ms_managed

`ms_managed`

The flag that indicates whether the zone is assigned to a Microsoft DNS server. This flag returns the authoritative name server type of the Microsoft DNS server. Valid values are:

“NONE” if the zone is not assigned to any Microsoft DNS server.

“STUB” if the zone is assigned to a Microsoft DNS server as a stub zone.

“AUTH_PRIMARY” if only the primary server of the zone is a Microsoft DNS server.

“AUTH_SECONDARY” if only the secondary server of the zone is a Microsoft DNS server.

“AUTH_BOTH” if both the primary and secondary servers of the zone are Microsoft DNS servers.

Type

String.

Valid values are:

- AUTH_BOTH
- AUTH_PRIMARY
- AUTH_SECONDARY
- NONE
- STUB

Search

The field is not available for search.

Notes

The ms_managed cannot be updated.

ms_managed cannot be written.

ms_primaries

`ms_primaries`

The list with the Microsoft DNS servers that are primary servers for the zone. Although a zone typically has just one primary name server, you can specify up to ten independent servers for a single zone.

Type

A/An Msserver Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ms_read_only

`ms_read_only`

Determines if a Grid member manages the zone served by a Microsoft DNS server in read-only mode. This flag is true when a Grid member manages the zone in read-only mode, false otherwise.

When the zone has the ms_read_only flag set to True, no changes can be made to this zone.

Type

Bool.

Search

The field is not available for search.

Notes

The ms_read_only cannot be updated.

ms_read_only cannot be written.

ms_secondaries

`ms_secondaries`

The list with the Microsoft DNS servers that are secondary servers for the zone.

Type

A/An Msserver Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

ms_sync_disabled

`ms_sync_disabled`

This flag controls whether this zone is synchronized with Microsoft DNS servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_sync_master_name

ms_sync_master_name

The name of MS synchronization master for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

network_associations

network_associations

The list with the associated network/network container information.

Type

An array of the following objects: network, networkcontainer, ipv6network, ipv6networkcontainer.

This field supports nested return fields as described here.

Search

The field is not available for search.

Notes

The network_associations cannot be updated.

network_associations cannot be written.

network_view

network_view

The name of the network view in which this zone resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The network_view cannot be updated.

network_view cannot be written.

notify_delay

`notify_delay`

The number of seconds in delay with which notify messages are sent to secondaries.

Type

Unsigned integer.

Create

The default value is *5*.

Search

The field is not available for search.

Notes

notify_delay is associated with the field use_notify_delay (see use flag).

ns_group

`ns_group`

The name server group that serves DNS for this zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

parent

`parent`

The parent zone of this zone.

Note that when searching for reverse zones, the “in-addr.arpa” notation should be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The parent cannot be updated.

parent cannot be written.

prefix

`prefix`

The RFC2317 prefix value of this DNS zone.

Use this field only when the netmask is greater than 24 bits; that is, for a mask between 25 and 31 bits. Enter a prefix, such as the name of the allocated address block. The prefix can be alphanumeric characters, such as 128/26 , 128-189 , or sub-B.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

primary_type

`primary_type`

The type of the primary server.

Type

String.

Valid values are:

- External
- Grid
- Microsoft
- None

Search

The field is not available for search.

Notes

The primary_type cannot be updated.

primary_type cannot be written.

record_name_policy

`record_name_policy`

The hostname policy for records under this zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

record_name_policy is associated with the field use_record_name_policy (see use flag).

records_monitored

`records_monitored`

Determines if this zone is also monitoring resource records.

Type

Bool.

Search

The field is not available for search.

Notes

The records_monitored cannot be updated.

records_monitored cannot be written.

restart_if_needed

`restart_if_needed`

Restarts the member service.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

restart_if_needed is not readable.

rr_not_queried_enabled_time

`rr_not_queried_enabled_time`

The time data collection for Not Queried Resource Record was enabled for this zone.

Type

Timestamp.

Search

The field is not available for search.

Notes

The rr_not_queried_enabled_time cannot be updated.

rr_not_queried_enabled_time cannot be written.

scavenging_settings

`scavenging_settings`

The scavenging settings.

Type

A/An DNS scavenging settings struct.

Create

The default value is:

```
  { 'ea_expression_list': [],
'enable_auto_reclamation': False,
'enable_recurrent_scavenging': False,
'enable_rr_last_queried': False,
'enable_scavenging': False,
'enable_zone_last_queried': False,
'expression_list': [],
'reclaim_associated_records': False}
```

Search

The field is not available for search.

Notes

scavenging_settings is associated with the field use_scavenging_settings (see use flag).

set_soa_serial_number

`set_soa_serial_number`

The serial number in the SOA record incrementally changes every time the record is modified. The Infoblox appliance allows you to change the serial number (in the SOA record) for the primary server so it is higher than the secondary server, thereby ensuring zone transfers come from the primary server (as they should). To change the serial number you need to set a new value at “soa_serial_number” and pass “set_soa_serial_number” as True.

Type

Bool.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

set_soa_serial_number is not readable.

soa_default_ttl

`soa_default_ttl`

The Time to Live (TTL) value of the SOA record of this zone. This value is the number of seconds that data is cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_default_ttl is associated with the field use_grid_zone_timer (see use flag).

soa_email

`soa_email`

The SOA email value for this zone. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_email is associated with the field use_soa_email (see use flag).

soa_expire

`soa_expire`

This setting defines the amount of time, in seconds, after which the secondary server stops giving out answers about the zone because the zone data is too old to be useful. The default is one week.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_expire is associated with the field use_grid_zone_timer (see use flag).

soa_negative_ttl

`soa_negative_ttl`

The negative Time to Live (TTL) value of the SOA of the zone indicates how long a secondary server can cache data for “Does Not Respond” responses.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_negative_ttl is associated with the field use_grid_zone_timer (see use flag).

soa_refresh

`soa_refresh`

This indicates the interval at which a secondary server sends a message to the primary server for a zone to check that its data is current, and retrieve fresh data if it is not.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_refresh is associated with the field use_grid_zone_timer (see use flag).

soa_retry

`soa_retry`

This indicates how long a secondary server must wait before attempting to recontact the primary server after a connection failure between the two servers occurs.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_retry is associated with the field use_grid_zone_timer (see use flag).

soa_serial_number

`soa_serial_number`

The serial number in the SOA record incrementally changes every time the record is modified. The Infoblox appliance allows you to change the serial number (in the SOA record) for the primary server so it is higher than the secondary server, thereby ensuring zone transfers come from the primary server (as they should). To change the serial number you need to set a new value at “soa_serial_number” and pass “set_soa_serial_number” as True.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

srgs

`srgs`

The associated shared record groups of a DNS zone.

If a shared record group is associated with a zone, then all shared records in a shared record group will be shared in the zone.

Type

String array.

Create

The default value is *empty*.

Search

The field is not available for search.

update_forwarding

`update_forwarding`

Use this field to allow or deny dynamic DNS updates that are forwarded from specific IPv4/IPv6 addresses, networks, or a named ACL. You can also provide TSIG keys for clients that are allowed or denied to perform zone updates. This setting overrides the member-level setting.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

use_allow_active_dir

use_allow_active_dir

Use flag for: allow_active_dir

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_query

use_allow_query

Use flag for: allow_query

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_transfer

use_allow_transfer

Use flag for: allow_transfer

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_update

`use_allow_update`

Use flag for: allow_update

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_allow_update_forwarding

`use_allow_update_forwarding`

Use flag for: allow_update_forwarding

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_check_names_policy

use_check_names_policy

Apply policy to dynamic updates and inbound zone transfers (This value applies only if the host name restriction policy is set to “Strict Hostname Checking”.)

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_copy_xfer_to_notify

use_copy_xfer_to_notify

Use flag for: copy_xfer_to_notify

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_force_creation_timestamp_update

use_ddns_force_creation_timestamp_update

Use flag for: ddns_force_creation_timestamp_update

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_patterns_restriction

`use_ddns_patterns_restriction`

Use flag for: ddns_restrict_patterns_list , ddns_restrict_patterns

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_principal_security

`use_ddns_principal_security`

Use flag for: ddns_restrict_secure , ddns_principal_tracking, ddns_principal_group

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_restrict_protected

`use_ddns_restrict_protected`

Use flag for: ddns_restrict_protected

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_ddns_restrict_static

`use_ddns_restrict_static`

Use flag for: ddns_restrict_static

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_dnssec_key_params

`use_dnssec_key_params`

Use flag for: dnssec_key_params

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_external_primary

use_external_primary

This flag controls whether the zone is using an external primary.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_grid_zone_timer

use_grid_zone_timer

Use flag for: soa_default_ttl , soa_expire, soa_negative_ttl, soa_refresh, soa_retry

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_import_from

use_import_from

Use flag for: import_from

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_notify_delay

`use_notify_delay`

Use flag for: notify_delay

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_record_name_policy

`use_record_name_policy`

Use flag for: record_name_policy

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_scavenging_settings

use_scavenging_settings

Use flag for: scavenging_settings , last_queried_acl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_soa_email

use_soa_email

Use flag for: soa_email

Type

Bool.

Create

The default value is *None*.

Search

The field is not available for search.

using_srg_associations

using_srg_associations

This is true if the zone is associated with a shared record group.

Type

Bool.

Search

The field is not available for search.

Notes

The using_srg_associations cannot be updated.

using_srg_associations cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the zone resides. Example "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone_format

`zone_format`

Determines the format of this zone.

Type

String.

Valid values are:

- FORWARD
- IPV4
- IPV6

Create

The default value is *FORWARD*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone_format cannot be updated.

zone_not_queried_enabled_time

`zone_not_queried_enabled_time`

The time when "DNS Zones Last Queried" was turned on for this zone.

Type

Timestamp.

Search

The field is not available for search.

Notes

The zone_not_queried_enabled_time cannot be updated.

zone_not_queried_enabled_time cannot be written.

Function Calls

copyzonerecords

This function is used to copy records from this zone to another authoritative zone.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

clear_destination_first (Bool.) Determines whether the records in destination zone are removed before copying. The default value is “False”.

destination_zone (String.). This parameter is mandatory. The destination DNS zone.

replace_existing_records (Bool.) Determines whether the records in destination zone are replaced by copying records. The default value is “False”.

select_records (String. Valid values are: “A”, “AAAA”, “CNAME”, “MX”, “PTR”, “SRV”, “TLSA”, “TXT”, “HOST”, “BULK_HOST”, “DNAME”, “NAPTR”, “CAA”, “Unknown”, “SVCB”, “HTTPS”) The types of records that should be copied. Omit this parameter to copy all records.

Output fields

None

dnssec_export

This function is used to download DNSSEC zone DS and DNSKEY records and trust anchors for this particular zone from the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: “EXPORT_DS”, “EXPORT_ANCHORS”, “EXPORT_DNSKEY”). This parameter is mandatory. Export operation.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

dnssec_get_zone_keys

This function is used to download DNSSEC zone keys for this particular zone from the appliance.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

key_pair_type (String. Valid values are: “KSK”, “ZSK”). This parameter is mandatory. Key pair to export.

Output fields

token (String.) The token used for calling the downloadcomplete function.

url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

dnssec_operation

This function performs DNSSEC operations on the zone.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

buffer (String.) This field contains the imported KSK or DS record. The value must be a KSK or DS record, and it must belong to an immediate subzone of the zone to which the record is being imported. For more information, refer to the “DS Resource Records” section in the Infoblox NIOS Administrator Guide.”

operation (String. Valid values are: “IMPORT_DS”, “ROLLOVER_KSK”, “SIGN”, “UNSIGN”, “ROLLOVER_ZSK”, “RESIGN”). This parameter is mandatory. The DNSSEC operation to perform. When

importing a keyset via “IMPORT_DS” the buffer field is mandatory; otherwise, it is ignored.

Output fields

None

dnssec_set_zone_keys

This function is used to upload DNSSEC zone keys for this particular zone.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

key_pair_type (String. Valid values are: “KSK”, “ZSK”). This parameter is mandatory. Key pair to import.

token (String.). This parameter is mandatory. The token returned by the uploadinit function call.

Output fields

None

dnssecgetkskrollover

This function is used to get the KSK rollover information.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

num_days_to_countdown (Unsigned integer.) The number of days since the warning has been sent and before the rollover period expires. The default value is “7”.

Output fields

zones (A/An The zone rollover information structure struct array.) The list of rollover information per zone.

execute_dns_parent_check

This function executes a check for DNS records from parent domain name servers for the zone.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

None

Output fields

None

lock_unlock_zone

This function is used to lock or unlock a zone to prevent other administrators from making conflicting changes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: “LOCK”, “UNLOCK”). This parameter is mandatory. The operation to perform.

Output fields

None

run_scavenging

This function performs the scavenging of the DNS Records.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

action (String. Valid values are: “ANALYZE”, “RECLAIM”, “ANALYZE_RECLAIM”, “RESET”). This parameter is mandatory. The scavenging action to perform.

Output fields

None

Delete arguments

These fields are used only as delete arguments. They are not actual members of the object and therefore will never be returned by the server with this name unless they are nested return fields.

remove_subzones

`remove_subzones`

Remove subzones delete option. Determines whether all child objects should be removed alongside with the parent zone or child objects should be assigned to another parental zone. By default child objects are deleted with the parent zone.

Type

Bool.

Notes

remove_subzones is a delete argument.

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
allow_active_dir	[struct]	N	N	N	N/A
allow_fixed_rrset_order	Bool	N	N	N	N/A
allow_gss_tsig_for_underscore_zone	Bool	N	N	N	N/A
allow_gss_tsig_zone_updates	Bool	N	N	N	N/A
allow_query	[struct]	N	N	N	N/A
allow_transfer	[struct]	N	N	N	N/A
allow_update	[struct]	N	N	N	N/A
allow_update_forwarding	Bool	N	N	N	N/A
aws_rte53_zone_info	struct	N	Y	N	N/A
cloud_info	struct	N	Y	N	N/A
comment	String	N	N	N	: = ~
copy_xfer_to_notify	Bool	N	N	N	N/A
create_ptr_for_bulk_hosts	Bool	N	N	N	N/A
create_ptr_for_hosts	Bool	N	N	N	N/A
create_underscore_zones	Bool	N	N	N	N/A
ddns_force_creation_timestamp_update	Bool	N	N	N	N/A
ddns_principal_group	String	N	N	N	N/A
ddns_principal_tracking	Bool	N	N	N	N/A
ddns_restrict_patterns	Bool	N	N	N	N/A
ddns_restrict_patterns_list	[String]	N	N	N	N/A
ddns_restrict_protected	Bool	N	N	N	N/A

ddns_restrict_secure	Bool	N	N	N	N/A
ddns_restrict_static	Bool	N	N	N	N/A
disable	Bool	N	N	N	N/A
disable_forwarding	Bool	N	N	N	N/A
display_domain	String	N	Y	N	N/A
dns_fqdn	String	N	Y	N	N/A
dns_integrity_enable	Bool	N	N	N	N/A
dns_integrity_frequency	Unsigned int	N	N	N	N/A
dns_integrity_member	String	N	N	N	N/A
dns_integrity_verbose_logging	Bool	N	N	N	N/A
dns_soa_email	String	N	Y	N	N/A
dnssec_key_params	struct	N	N	N	N/A
dnssec_keys	[struct]	N	N	N	N/A
dnssec_ksk_rollover_date	Timestamp	N	Y	N	< = >
dnssec_zsk_rollover_date	Timestamp	N	Y	N	< = >
do_host_abstraction	Bool	N	N	N	N/A
effective_check_names_policy	String	N	N	N	N/A
effective_record_name_policy	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
external_primaries	[struct]	N	N	N	N/A
external_secondaries	[struct]	N	N	N	N/A
fqdn	String	Y	N	Y	= ~
grid_primary	[struct]	N	N	N	N/A
grid_primary_shared_with_ms_parent_delegation	Bool	N	Y	N	N/A
grid_secondaries	[struct]	N	N	N	N/A
import_from	String	N	N	N	N/A
is_dnssec_enabled	Bool	N	Y	N	N/A
is_dnssec_signed	Bool	N	Y	N	N/A
is_multimaster	Bool	N	Y	N	N/A
last_queried	Timestamp	N	Y	N	N/A
last_queried_acl	[struct]	N	N	N	N/A
locked	Bool	N	N	N	N/A
locked_by	String	N	Y	N	N/A
mask_prefix	String	N	Y	N	N/A
member_soa_mnames	[struct]	N	N	N	N/A
member_soa_serials	[struct]	N	Y	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_integrated	Bool	N	N	N	N/A

ms_allow_transfer	[struct]	N	N	N	N/A
ms_allow_transfer_mode	String	N	N	N	N/A
ms_dc_ns_record_creation	[struct]	N	N	N	N/A
ms_ddns_mode	String	N	N	N	N/A
ms_managed	String	N	Y	N	N/A
ms_primaries	[struct]	N	N	N	N/A
ms_read_only	Bool	N	Y	N	N/A
ms_secondaries	[struct]	N	N	N	N/A
ms_sync_disabled	Bool	N	N	N	N/A
ms_sync_master_name	String	N	Y	N	N/A
network_associations	obj	N	Y	N	N/A
network_view	String	N	Y	N	N/A
notify_delay	Unsigned int	N	N	N	N/A
ns_group	String	N	N	N	N/A
parent	String	N	Y	N	=
prefix	String	N	N	N	N/A
primary_type	String	N	Y	N	N/A
record_name_policy	String	N	N	N	N/A
records_monitored	Bool	N	Y	N	N/A
restart_if_needed	Bool	N	N	N	N/A
rr_not_queried_enabled_time	Timestamp	N	Y	N	N/A
scavenging_settings	struct	N	N	N	N/A
set_soa_serial_number	Bool	N	N	N	N/A
soa_default_ttl	Unsigned int	N	N	N	N/A
soa_email	String	N	N	N	N/A
soa_expire	Unsigned int	N	N	N	N/A
soa_negative_ttl	Unsigned int	N	N	N	N/A
soa_refresh	Unsigned int	N	N	N	N/A
soa_retry	Unsigned int	N	N	N	N/A
soa_serial_number	Unsigned int	N	N	N	N/A
srgs	[String]	N	N	N	N/A
update_forwarding	[struct]	N	N	N	N/A
use_allow_active_dir	Bool	N	N	N	N/A
use_allow_query	Bool	N	N	N	N/A
use_allow_transfer	Bool	N	N	N	N/A
use_allow_update	Bool	N	N	N	N/A
use_allow_update_forwarding	Bool	N	N	N	N/A
use_check_names_policy	Bool	N	N	N	N/A
use_copy_xfer_to_notify	Bool	N	N	N	N/A

use_ddns_force_creation_timestamp_update	Bool	N	N	N	N/A
use_ddns_patterns_restriction	Bool	N	N	N	N/A
use_ddns_principal_security	Bool	N	N	N	N/A
use_ddns_restrict_protected	Bool	N	N	N	N/A
use_ddns_restrict_static	Bool	N	N	N	N/A
use_dnssec_key_params	Bool	N	N	N	N/A
use_external_primary	Bool	N	N	N	N/A
use_grid_zone_timer	Bool	N	N	N	N/A
use_import_from	Bool	N	N	N	N/A
use_notify_delay	Bool	N	N	N	N/A
use_record_name_policy	Bool	N	N	N	N/A
use_scavenging_settings	Bool	N	N	N	N/A
use_soa_email	Bool	N	N	N	N/A
using_srg_associations	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone_format	String	N	N	N	=
zone_not_queried_enabled_time	Timestamp	N	Y	N	N/A

Delete Arguments List

Argument	Type
remove_subzones	Bool

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zone_auth_discrepancy : Zone discrepancy information object.
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- Search-only Fields List

Previous topic

zone_auth : DNS Authoritative Zone object.

Next topic

zone_delegated : DNS Delegated Zone object.

zone_auth_discrepancy : Zone discrepancy information object.

This object contains information about discrepancies found when performing a DNS integrity check for a zone.

Object Reference

References to zone_auth_discrepancy are object references. The *name* part of a DNS Auth Zone discrepancy object reference has the following components:

- The FQDN of the zone being checked.
- The name of the view in which the zone being checked resides.

Example:

```
# Using _ref
zone_auth_discrepancy/ZG5zLmhvc3QkLl9kZWZhd3QuaDE:zone.com/default

# Using UUID
zone_auth_discrepancy/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Permissions
- Global search (searches via the search object)
- Scheduling
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **description, severity, timestamp, uuid, zone**.

description

`description`

Information about the discrepancy.

Type

String.

Search

The field is not available for search.

Notes

The description is part of the base object.

The description cannot be updated.

description cannot be written.

severity

`severity`

The severity of the discrepancy reported.

Type

String.

Valid values are:

- CRITICAL
- INFORMATIONAL
- NORMAL
- SEVERE
- WARNING

Search

The field is available for search via

- '=' (exact equality)

Notes

The severity is part of the base object.

The severity cannot be updated.

severity cannot be written.

timestamp

`timestamp`

The time when the DNS integrity check was last run for this zone.

Type

Timestamp.

Search

The field is not available for search.

Notes

The timestamp is part of the base object.

The timestamp cannot be updated.

timestamp cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

zone

`zone`

The reference of the zone during a search. Otherwise, this is the zone object of the zone to which the discrepancy refers.

Type

String.

This field supports nested return fields as described here.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone is part of the base object.

The zone cannot be updated.

zone cannot be written.

Search-only Fields

These fields are used only for searching. They are not actual members of the object and therefore the server does not return these fields with this name unless they are nested return fields.

fqdn

fqdn

The FQDN of the zone to be searched.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

fqdn is a search-only field.

view

view

The name of the view in which the zone being searched resides. This search parameter is invalid if specified without a FQDN.

Type

String.

Search

The field is available for search via

- '=' (exact equality)

Notes

view is a search-only field.

Fields List

Field	Type	Req	R/O	Base	Search
description	String	N	Y	Y	N/A
severity	String	N	Y	Y	=
timestamp	Timestamp	N	Y	Y	N/A
uuid	String	N	Y	Y	: = ~
zone	String	N	Y	Y	=

Search-only Fields List

Field	Type	Search
fqdn	String	=
view	String	=

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  - mask_prefix
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  - mgm_private_overridable
  - ms_ad_integrated
  - ms_ddns_mode
  - ms_managed
  - ms_read_only
  - ms_sync_master_name
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Previous topic

zone_auth_discrepancy : Zone discrepancy information object.

Next topic

zone_forward : DNS Forward Zone object.

zone_delegated : DNS Delegated Zone object.

Instead of a local name server, remote name servers (which the local server knows) maintain delegated zone data. When the local name server receives a query for a delegated zone, it either responds with the NS record for the delegated zone server (if recursion is disabled on the local server) or it queries the delegated zone server on behalf of the resolver (if recursion is enabled).

You can delegate a zone to one or more remote name servers, which are typically the authoritative primary and secondary servers for the zone. If recursion is enabled on the local name server, it queries multiple delegated name servers based on their round-trip times.

Object Reference

References to zone_delegated are object references. The *name* part of a DNS Delegated Zone object reference has the following components:

- FQDN of the zone
- Name of the view

Example:

```
# Using _ref
zone_delegated/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

# Using UUID
zone_delegated/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **delegate_to, fqdn, ns_group, uuid, view**.

The following fields are required to create this object:

Field	Notes
fqdn	

address

`address`

The IP address of the server that is serving this zone.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

comment

`comment`

Comment for the zone; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

delegate_to

`delegate_to`

This provides information for the remote name server that maintains data for the delegated zone. The Infoblox appliance redirects queries for data for the delegated zone to this remote name server.

Type

A/An External Server struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The delegate_to is part of the base object.

delegated_ttl

`delegated_ttl`

You can specify the Time to Live (TTL) values of auto-generated NS and glue records for a delegated zone. This value is the number of seconds that data is cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

delegated_ttl is associated with the field use_delegated_ttl (see use flag).

disable

`disable`

Determines whether a zone is disabled or not. When this is set to False, the zone is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_domain

`display_domain`

The displayed name of the DNS zone.

Type

String.

Search

The field is not available for search.

Notes

The display_domain cannot be updated.

display_domain cannot be written.

dns_fqdn

`dns_fqdn`

The name of this DNS zone in punycode format. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format in punycode format.

Type

String.

Search

The field is not available for search.

Notes

The dns_fqdn cannot be updated.

dns_fqdn cannot be written.

enable_rfc2317_exclusion

`enable_rfc2317_exclusion`

This flag controls whether automatic generation of RFC 2317

CNAMEs for delegated reverse zones overwrite existing PTR records. The default behavior is to overwrite all the existing records in the range; this corresponds to “allow_ptr_creation_in_parent” set to False. However, when this flag is set to True the existing PTR records are not overwritten.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

fqdn

`fqdn`

The name of this DNS zone. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format. This value can be in unicode format.

Note that for a reverse zone, the corresponding zone_format value should be set.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The fqdn is part of the base object.

The fqdn cannot be updated.

locked

`locked`

If you enable this flag, other administrators cannot make conflicting changes. This is for administration purposes only. The zone will continue to serve DNS data even when it is locked.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

locked_by

`locked_by`

The name of a superuser or the administrator who locked this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The locked_by cannot be updated.

locked_by cannot be written.

mask_prefix

`mask_prefix`

IPv4 Netmask or IPv6 prefix for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mask_prefix cannot be updated.

mask_prefix cannot be written.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

mgm_private_overridable

mgm_private_overridable

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_integrated

ms_ad_integrated

The flag that determines whether Active Directory is integrated or not. This field is valid only when ms_managed is “STUB”, “AUTH_PRIMARY”, or “AUTH_BOTH”.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_ddns_mode

ms_ddns_mode

Determines whether an Active Directory-integrated zone with a Microsoft DNS server as primary allows dynamic updates. Valid values are:

“SECURE” if the zone allows secure updates only.

“NONE” if the zone forbids dynamic updates.

“ANY” if the zone accepts both secure and nonsecure updates.

This field is valid only if ms_managed is either “AUTH_PRIMARY”

or “AUTH_BOTH”. If the flag ms_ad_integrated is false, the value “SECURE” is not allowed.

Type

String.

Valid values are:

- ANY
- NONE
- SECURE

Create

The default value is *NONE*.

Search

The field is not available for search.

ms_managed

`ms_managed`

The flag that indicates whether the zone is assigned to a Microsoft DNS server. This flag returns the authoritative name server type of the Microsoft DNS server. Valid values are:

“NONE” if the zone is not assigned to any Microsoft DNS server.

“STUB” if the zone is assigned to a Microsoft DNS server as a stub zone.

“AUTH_PRIMARY” if only the primary server of the zone is a Microsoft DNS server.

“AUTH_SECONDARY” if only the secondary server of the zone is a Microsoft DNS server.

“AUTH_BOTH” if both the primary and secondary servers of the zone are Microsoft DNS servers.

Type

String.

Valid values are:

- AUTH_BOTH
- AUTH_PRIMARY
- AUTH_SECONDARY
- NONE
- STUB

Search

The field is not available for search.

Notes

The ms_managed cannot be updated.

ms_managed cannot be written.

ms_read_only

`ms_read_only`

Determines if a Grid member manages the zone served by a Microsoft DNS server in read-only mode. This flag is true when a Grid member manages the zone in read-only mode, false otherwise.

When the zone has the ms_read_only flag set to True, no changes can be made to this zone.

Type

Bool.

Search

The field is not available for search.

Notes

The ms_read_only cannot be updated.

ms_read_only cannot be written.

ms_sync_master_name

`ms_sync_master_name`

The name of MS synchronization master for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

ns_group

ns_group

The delegation NS group bound with delegated zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

The ns_group is part of the base object.

parent

parent

The parent zone of this zone.

Note that when searching for reverse zones, the “in-addr.arpa” notation should be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The parent cannot be updated.

parent cannot be written.

prefix

prefix

The RFC2317 prefix value of this DNS zone.

Use this field only when the netmask is greater than 24 bits; that is, for a mask between 25 and 31 bits. Enter a prefix, such as the name of the allocated address block. The prefix can be alphanumeric characters, such as 128/26 , 128-189 , or sub-B.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

use_delegated_ttl

`use_delegated_ttl`

Use flag for: delegated_ttl

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

using_srg_associations

`using_srg_associations`

This is true if the zone is associated with a shared record group.

Type

Bool.

Search

The field is not available for search.

Notes

The using_srg_associations cannot be updated.

using_srg_associations cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the zone resides. Example "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone_format

`zone_format`

Determines the format of this zone.

Type

String.

Valid values are:

- FORWARD
- IPV4
- IPV6

Create

The default value is *FORWARD*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone_format cannot be updated.

Function Calls

lock_unlock_zone

This function is used to lock or unlock zone to prevent other administrators from making conflicting changes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: "LOCK", "UNLOCK"). This parameter is mandatory. The operation to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
comment	String	N	N	N	: = ~

delegate_to	[struct]	N	N	Y	N/A
delegated_ttl	Unsigned int	N	N	N	N/A
disable	Bool	N	N	N	N/A
display_domain	String	N	Y	N	N/A
dns_fqdn	String	N	Y	N	N/A
enable_rfc2317_exclusion	Bool	N	N	N	N/A
extattrs	Extattr	N	N	N	ext
fqdn	String	Y	N	Y	= ~
locked	Bool	N	N	N	N/A
locked_by	String	N	Y	N	N/A
mask_prefix	String	N	Y	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_integrated	Bool	N	N	N	N/A
ms_ddns_mode	String	N	N	N	N/A
ms_managed	String	N	Y	N	N/A
ms_read_only	Bool	N	Y	N	N/A
ms_sync_master_name	String	N	Y	N	N/A
ns_group	String	N	N	Y	N/A
parent	String	N	Y	N	=
prefix	String	N	N	N	N/A
use_delegated_ttl	Bool	N	N	N	N/A
using_srg_associations	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone_format	String	N	N	N	=

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zone_delegated : DNS Delegated Zone object.

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zone_rp : DNS Response Policy Zone object.

zone_forward : DNS Forward Zone object.

When you want to forward queries for data in a particular zone, define the zone as a forward zone and specify one or more name servers that can resolve queries for the zone. For example, define a forward zone so that the NIOS appliance forwards queries about a partners internal site to a name server, which the partner hosts, configured just for other partners to access.

Object Reference

References to zone_forward are object references. The *name* part of a DNS Forward Zone object reference has the following components:

- FQDN of the zone
- Name of the view

Example:

```
# Using _ref
zone_forward/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

# Using UUID
zone_forward/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **external_ns_group, forward_to, fqdn, uuid, view**.

The following fields are required to create this object:

Field	Notes
fqdn	

address

address

The IP address of the server that is serving this zone.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

comment

comment

Comment for the zone; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

disable

Determines whether a zone is disabled or not. When this is set to False, the zone is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_ns_generation

`disable_ns_generation`

Determines whether a auto-generation of NS records in parent zone is disabled or not. When this is set to False, the auto-generation is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_domain

`display_domain`

The displayed name of the DNS zone.

Type

String.

Search

The field is not available for search.

Notes

The display_domain cannot be updated.

display_domain cannot be written.

dns_fqdn

`dns_fqdn`

The name of this DNS zone in punycode format. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format in punycode format.

Type

String.

Search

The field is not available for search.

Notes

The dns_fqdn cannot be updated.

dns_fqdn cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_ns_group

`external_ns_group`

A forward stub server name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The external_ns_group is part of the base object.

forward_to

`forward_to`

The information for the remote name servers to which you want the Infoblox appliance to forward queries for a specified domain name.

Type

A/An External Server struct array.

Create

The default value is *undefined*.

Search

The field is not available for search.

Notes

The forward_to is part of the base object.

forwarders_only

`forwarders_only`

Determines if the appliance sends queries to forwarders only, and not to other internal or Internet root servers.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

forwarding_servers

`forwarding_servers`

The information for the Grid members to which you want the Infoblox appliance to forward queries for a specified domain name.

Type

A/An Forwarding Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

fqdn

`fqdn`

The name of this DNS zone. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format. This value can be in unicode format.

Note that for a reverse zone, the corresponding zone_format value should be set.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- ‘~=’ (regular expression)
- ‘=’ (exact equality)

Notes

The fqdn is part of the base object.

The fqdn cannot be updated.

locked

`locked`

If you enable this flag, other administrators cannot make conflicting changes. This is for administration purposes only. The zone will continue to serve DNS data even when it is locked.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

locked_by

`locked_by`

The name of a superuser or the administrator who locked this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The locked_by cannot be updated.

locked_by cannot be written.

mask_prefix

`mask_prefix`

IPv4 Netmask or IPv6 prefix for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mask_prefix cannot be updated.

mask_prefix cannot be written.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_integrated

`ms_ad_integrated`

The flag that determines whether Active Directory is integrated or not. This field is valid only when ms_managed is “STUB”, “AUTH_PRIMARY”, or “AUTH_BOTH”.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_ddns_mode

`ms_ddns_mode`

Determines whether an Active Directory-integrated zone with a Microsoft DNS server as primary allows dynamic updates. Valid values are:

“SECURE” if the zone allows secure updates only.

“NONE” if the zone forbids dynamic updates.

“ANY” if the zone accepts both secure and nonsecure updates.

This field is valid only if ms_managed is either “AUTH_PRIMARY” or “AUTH_BOTH”. If the flag ms_ad_integrated is false, the value “SECURE” is not allowed.

Type

String.

Valid values are:

- ANY
- NONE
- SECURE

Create

The default value is *NONE*.

Search

The field is not available for search.

ms_managed

`ms_managed`

The flag that indicates whether the zone is assigned to a Microsoft DNS server. This flag returns the authoritative name server type of the Microsoft DNS server. Valid values are:

“NONE” if the zone is not assigned to any Microsoft DNS server.

“STUB” if the zone is assigned to a Microsoft DNS server as a stub zone.

“AUTH_PRIMARY” if only the primary server of the zone is a Microsoft DNS server.

“AUTH_SECONDARY” if only the secondary server of the zone is a Microsoft DNS server.

“AUTH_BOTH” if both the primary and secondary servers of the zone are Microsoft DNS servers.

Type

String.

Valid values are:

- AUTH_BOTH
- AUTH_PRIMARY
- AUTH_SECONDARY
- NONE
- STUB

Search

The field is not available for search.

Notes

The ms_managed cannot be updated.

ms_managed cannot be written.

ms_read_only

`ms_read_only`

Determines if a Grid member manages the zone served by a

Microsoft DNS server in read-only mode. This flag is true when a Grid member manages the zone in read-only mode, false otherwise.

When the zone has the ms_read_only flag set to True, no changes can be made to this zone.

Type

Bool.

Search

The field is not available for search.

Notes

The ms_read_only cannot be updated.

ms_read_only cannot be written.

ms_sync_master_name

`ms_sync_master_name`

The name of MS synchronization master for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

ns_group

`ns_group`

A forwarding member name server group.

Type

String.

Values with leading or trailing white space are not valid for this

field.

Create

The default value is *undefined*.

Search

The field is not available for search.

parent

`parent`

The parent zone of this zone.

Note that when searching for reverse zones, the “in-addr.arpa” notation should be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The parent cannot be updated.

parent cannot be written.

prefix

`prefix`

The RFC2317 prefix value of this DNS zone.

Use this field only when the netmask is greater than 24 bits; that is, for a mask between 25 and 31 bits. Enter a prefix, such as the name of the allocated address block. The prefix can be alphanumeric characters, such as 128/26 , 128-189 , or sub-B.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

using_srg_associations

`using_srg_associations`

This is true if the zone is associated with a shared record group.

Type

Bool.

Search

The field is not available for search.

Notes

The using_srg_associations cannot be updated.

using_srg_associations cannot be written.

uuid

`uuid`

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

`view`

The name of the DNS view in which the zone resides. Example “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

zone_format

`zone_format`

Determines the format of this zone.

Type

String.

Valid values are:

- FORWARD
- IPV4
- IPV6

Create

The default value is *FORWARD*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The zone_format cannot be updated.

Function Calls

lock_unlock_zone

This function is used to lock or unlock a zone to prevent other administrators from making conflicting changes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: “LOCK”, “UNLOCK”). This parameter is mandatory. The operation to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
disable_ns_generation	Bool	N	N	N	N/A
display_domain	String	N	Y	N	N/A
dns_fqdn	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
external_ns_group	String	N	N	Y	N/A
forward_to	[struct]	N	N	Y	N/A
forwarders_only	Bool	N	N	N	N/A
forwarding_servers	[struct]	N	N	N	N/A
fqdn	String	Y	N	Y	= ~
locked	Bool	N	N	N	N/A
locked_by	String	N	Y	N	N/A
mask_prefix	String	N	Y	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_integrated	Bool	N	N	N	N/A
ms_ddns_mode	String	N	N	N	N/A
ms_managed	String	N	Y	N	N/A
ms_read_only	Bool	N	Y	N	N/A
ms_sync_master_name	String	N	Y	N	N/A
ns_group	String	N	N	N	N/A
parent	String	N	Y	N	=

prefix	String	N	N	N	N/A
using_srg_associations	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone_format	String	N	N	N	=

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zone_rp : DNS Response Policy Zone object.

DNS RPZs (Response Policy Zones), a technology developed by ISC (Internet System Consortium) for allowing reputable sources to dynamically communicate domain name reputation so you can implement policy controls for DNS lookups. You can configure RPZs and define RPZ rules to block DNS resolution for malicious or unauthorized domain names, or redirect clients to a walled garden by substituting responses. You can assign actions to RPZ rules. For example, abc.com can have an action of pass thru or substitute (domain) with the domain xyz.com. You can also configure a Grid member to act as a lead secondary that receives RPZ updates from external reputation sources and redistributes the updates to other Grid members.

Object Reference

References to zone_rp are object references.

The *name* part of a DNS Response Policy Zone object reference has the following components:

- FQDN of the zone
- Name of the view

Example (using _ref or UUID):

```
# Using _ref zone_rp/ZG5zLmJpbmRfY25h:some.name.com/myview

# Using UUID zone_rp/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **fqdn, uuid, view**.

The following fields are required to create this object:

Field	Notes
fqdn	
substitute_name	See the field description for more information

address

`address`

The IP address of the server that is serving this zone.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

comment

`comment`

Comment for the zone; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines whether a zone is disabled or not. When this is set to False, the zone is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_domain

`display_domain`

The displayed name of the DNS zone.

Type

String.

Search

The field is not available for search.

Notes

The display_domain cannot be updated.

display_domain cannot be written.

dns_soa_email

`dns_soa_email`

The SOA email for the zone in punycode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The dns_soa_email cannot be updated.

dns_soa_email cannot be written.

extattrs

`extattrs`

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_primaries

`external_primaries`

The list of external primary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

external_secondaries

`external_secondaries`

The list of external secondary servers.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

fireeye_rule_mapping

`fireeye_rule_mapping`

Rules to map fireeye alerts.

Type

A/An Fireeye Rule Mapping struct.

Create

The default value is *undefined*.

Search

The field is not available for search.

fqdn

`fqdn`

The name of this DNS zone in FQDN format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The fqdn is part of the base object.

The fqdn cannot be updated.

grid_primary

`grid_primary`

The grid primary servers for this zone.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

grid_secondaries

`grid_secondaries`

The list with Grid members that are secondary servers for this zone.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

locked

`locked`

If you enable this flag, other administrators cannot make conflicting changes. This is for administration purposes only. The zone will continue to serve DNS data even when it is locked.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

locked_by

`locked_by`

The name of a superuser or the administrator who locked this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The locked_by cannot be updated.

locked_by cannot be written.

log_rpz

`log_rpz`

Determines whether RPZ logging enabled or not at zone level. When this is set to False, the logging is disabled.

Type

Bool.

Create

The default value is *True*.

Search

The field is not available for search.

Notes

log_rpz is associated with the field use_log_rpz (see use flag).

mask_prefix

mask_prefix

IPv4 Netmask or IPv6 prefix for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mask_prefix cannot be updated.

mask_prefix cannot be written.

member_soa_mnames

member_soa_mnames

The list of per-member SOA MNAME information.

Type

A/An Per-master SOA MNAME Information struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

member_soa_serials

member_soa_serials

The list of per-member SOA serial information.

Type

A/An Per-master SOA Serial Information struct array.

Search

The field is not available for search.

Notes

The member_soa_serials cannot be updated.

member_soa_serials cannot be written.

network_view

`network_view`

The name of the network view in which this zone resides.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The network_view cannot be updated.

network_view cannot be written.

ns_group

`ns_group`

The name server group that serves DNS for this zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

parent

`parent`

The parent zone of this zone.

Note that when searching for reverse zones, the “in-addr.arpa” notation should be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The parent cannot be updated.

parent cannot be written.

prefix

`prefix`

The RFC2317 prefix value of this DNS zone.

Use this field only when the netmask is greater than 24 bits; that is, for a mask between 25 and 31 bits. Enter a prefix, such as the name of the allocated address block. The prefix can be alphanumeric characters, such as 128/26 , 128-189 , or sub-B.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

primary_type

`primary_type`

The type of the primary server.

Type

String.

Valid values are:

- External
- Grid
- None

Search

The field is not available for search.

Notes

The primary_type cannot be updated.

primary_type cannot be written.

record_name_policy

`record_name_policy`

The hostname policy for records under this zone.

Type

String.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

record_name_policy is associated with the field use_record_name_policy (see use flag).

rpz_drop_ip_rule_enabled

`rpz_drop_ip_rule_enabled`

Enables the appliance to ignore RPZ-IP triggers with prefix lengths less than the specified minimum prefix length.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_enabled is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv4

`rpz_drop_ip_rule_min_prefix_length_ipv4`

The minimum prefix length for IPv4 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv4 prefix length.

Type

Unsigned integer.

Create

The default value is *29*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv4 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_drop_ip_rule_min_prefix_length_ipv6

`rpz_drop_ip_rule_min_prefix_length_ipv6`

The minimum prefix length for IPv6 RPZ-IP triggers. The appliance ignores RPZ-IP triggers with prefix lengths less than the specified minimum IPv6 prefix length.

Type

Unsigned integer.

Create

The default value is *112*.

Search

The field is not available for search.

Notes

rpz_drop_ip_rule_min_prefix_length_ipv6 is associated with the field use_rpz_drop_ip_rule (see use flag).

rpz_last_updated_time

`rpz_last_updated_time`

The timestamp of the last update for zone data.

Type

Timestamp.

Search

The field is not available for search.

Notes

The rpz_last_updated_time cannot be updated.

rpz_last_updated_time cannot be written.

rpz_policy

`rpz_policy`

The response policy zone override policy.

Type

String.

Valid values are:

- DISABLED
- GIVEN
- NODATA
- NXDOMAIN
- PASSTHRU
- SUBSTITUTE

Create

The default value is *GIVEN*.

Search

The field is not available for search.

rpz_priority

`rpz_priority`

The priority of this response policy zone.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The rpz_priority cannot be updated.

rpz_priority cannot be written.

rpz_priority_end

`rpz_priority_end`

This number is for UI to identify the end of qualified zone list.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The rpz_priority_end cannot be updated.

rpz_priority_end cannot be written.

rpz_severity

`rpz_severity`

The severity of this response policy zone.

Type

String.

Valid values are:

- CRITICAL
- INFORMATIONAL
- MAJOR
- WARNING

Create

The default value is *MAJOR*.

Search

The field is not available for search.

rpz_type

`rpz_type`

The type of rpz zone.

Type

String.

Valid values are:

- FEED
- FIREEYE
- LOCAL

Create

The default value is *LOCAL*.

Search

The field is not available for search.

Notes

The rpz_type cannot be updated.

set_soa_serial_number

`set_soa_serial_number`

The serial number in the SOA record incrementally changes every time the record is modified. The Infoblox appliance allows you to change the serial number (in the SOA record) for the primary server so it is higher than the secondary server, thereby ensuring zone transfers come from the primary server (as they should). To change the serial number you need to set a new value at “soa_serial_number” and pass “set_soa_serial_number” as True.

Type

Bool.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

set_soa_serial_number is not readable.

soa_default_ttl

`soa_default_ttl`

The Time to Live (TTL) value of the SOA record of this zone. This value is the number of seconds that data is cached.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_default_ttl is associated with the field use_grid_zone_timer (see use flag).

soa_email

`soa_email`

The SOA email value for this zone. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_email is associated with the field use_soa_email (see use flag).

soa_expire

`soa_expire`

This setting defines the amount of time, in seconds, after which the secondary server stops giving out answers about the zone because the zone data is too old to be useful. The default is one week.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_expire is associated with the field use_grid_zone_timer (see use flag).

soa_negative_ttl

soa_negative_ttl

The negative Time to Live (TTL) value of the SOA of the zone indicates how long a secondary server can cache data for “Does Not Respond” responses.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_negative_ttl is associated with the field use_grid_zone_timer (see use flag).

soa_refresh

soa_refresh

This indicates the interval at which a secondary server sends a message to the primary server for a zone to check that its data is current, and retrieve fresh data if it is not.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_refresh is associated with the field use_grid_zone_timer (see use flag).

soa_retry

soa_retry

This indicates how long a secondary server must wait before attempting to recontact the primary server after a connection failure between the two servers occurs.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

Notes

soa_retry is associated with the field use_grid_zone_timer (see use flag).

soa_serial_number

`soa_serial_number`

The serial number in the SOA record incrementally changes every time the record is modified. The Infoblox appliance allows you to change the serial number (in the SOA record) for the primary server so it is higher than the secondary server, thereby ensuring zone transfers come from the primary server (as they should). To change the serial number you need to set a new value at “soa_serial_number” and pass “set_soa_serial_number” as True.

Type

Unsigned integer.

Create

The default value is *empty*.

Search

The field is not available for search.

substitute_name

`substitute_name`

The canonical name of redirect target in substitute policy of response policy zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when rpz_policy is set to SUBSTITUTE.

Search

The field is not available for search.

use_external_primary

`use_external_primary`

This flag controls whether the zone is using an external primary.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_grid_zone_timer

`use_grid_zone_timer`

Use flag for: soa_default_ttl , soa_expire, soa_negative_ttl, soa_refresh, soa_retry

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_log_rpz

`use_log_rpz`

Use flag for: log_rpz

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_record_name_policy

`use_record_name_policy`

Use flag for: record_name_policy

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_rpz_drop_ip_rule

use_rpz_drop_ip_rule

Use flag for: rpz_drop_ip_rule_enabled , rpz_drop_ip_rule_min_prefix_length_ipv4, rpz_drop_ip_rule_min_prefix_length_ipv6

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

use_soa_email

use_soa_email

Use flag for: soa_email

Type

Bool.

Create

The default value is *None*.

Search

The field is not available for search.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS view in which the zone resides. Example “external”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The view is part of the base object.

Function Calls

copy_rpz_records

Copy RPZ records (rules) between DNS views.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

clear_destination_first (Bool.) Remove all records in the destination zone before copying the records. The default value is “False”.

dest_view (String.). This parameter is mandatory. The destination DNS view.

dest_zone (String.). This parameter is mandatory. The destination DNS zone.

replace_existing_records (Bool.) Replace any existing records with the copied records if duplicate records are not allowed. The default value is “False”.

select_records (String. Valid values are: “PassthruIpaddr”, “PassthruDomain”, “BlockNxdomainIpaddr”, “BlockNxdomainDomain”, “BlockNoDataIpaddr”, “BlockNoDataDomain”, “SubstituteARecord”, “SubstituteAAAARecord”, “SubstituteCName”, “SubstituteHTTPSRecord”, “SubstituteMXRecord”, “SubstituteNAPTRRecord”, “SubstitutePTRRecord”, “SubstituteSRVRecord”, “SubstituteSVCBRecord”, “SubstituteTXTRecord”, “SubstituteIPv4AddressRecord”, “SubstituteIPv6AddressRecord”, “SubstituteIPAddressCname”, “PassthruClientIpaddr”, “BlockNxdomainClientIpaddr”, “BlockNoDataClientIpaddr”, “SubstituteClientIPAddressCname”) Contains types of records that should be copied. Omit this parameter to copy all records. The default value is “None”.

Output fields

None

lock_unlock_zone

This function is used to lock or unlock a zone to prevent other administrators from making conflicting changes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: “LOCK”, “UNLOCK”). This parameter is mandatory. The operation to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
display_domain	String	N	Y	N	N/A
dns_soa_email	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
external_primaries	[struct]	N	N	N	N/A
external_secondaries	[struct]	N	N	N	N/A
fireeye_rule_mapping	struct	N	N	N	N/A
fqdn	String	Y	N	Y	= ~
grid_primary	[struct]	N	N	N	N/A
grid_secondaries	[struct]	N	N	N	N/A
locked	Bool	N	N	N	N/A
locked_by	String	N	Y	N	N/A
log_rpz	Bool	N	N	N	N/A
mask_prefix	String	N	Y	N	N/A
member_soa_mnames	[struct]	N	N	N	N/A
member_soa_serials	[struct]	N	Y	N	N/A
network_view	String	N	Y	N	N/A
ns_group	String	N	N	N	N/A
parent	String	N	Y	N	=
prefix	String	N	N	N	N/A
primary_type	String	N	Y	N	N/A
record_name_policy	String	N	N	N	N/A
rpz_drop_ip_rule_enabled	Bool	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv4	Unsigned int	N	N	N	N/A
rpz_drop_ip_rule_min_prefix_length_ipv6	Unsigned int	N	N	N	N/A
rpz_last_updated_time	Timestamp	N	Y	N	N/A
rpz_policy	String	N	N	N	N/A
rpz_priority	Unsigned int	N	Y	N	N/A
rpz_priority_end	Unsigned int	N	Y	N	N/A
rpz_severity	String	N	N	N	N/A
rpz_type	String	N	N	N	N/A

set_soa_serial_number	Bool	N	N	N	N/A
soa_default_ttl	Unsigned int	N	N	N	N/A
soa_email	String	N	N	N	N/A
soa_expire	Unsigned int	N	N	N	N/A
soa_negative_ttl	Unsigned int	N	N	N	N/A
soa_refresh	Unsigned int	N	N	N	N/A
soa_retry	Unsigned int	N	N	N	N/A
soa_serial_number	Unsigned int	N	N	N	N/A
substitute_name	String	Y*	N	N	N/A
use_external_primary	Bool	N	N	N	N/A
use_grid_zone_timer	Bool	N	N	N	N/A
use_log_rpz	Bool	N	N	N	N/A
use_record_name_policy	Bool	N	N	N	N/A
use_rpz_drop_ip_rule	Bool	N	N	N	N/A
use_soa_email	Bool	N	N	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=

* Required in some cases, see detailed field description above.

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zone_rp : DNS Response Policy Zone object.

Next topic

ad_auth_server : Active Directory

zone_stub : DNS Stub Zone object.

A stub zone contains records that identify the authoritative name servers in the zone. It does not contain resource records for resolving IP addresses to hosts in the zone. Instead, it contains the following records:

SOA (Start of Authority) record of the zone

NS (name server) records at the apex of the stub zone

A (Address) records that map the name servers to their IP addresses

Stub zones, like secondary zones, obtain their records from other name servers. Their records are read only; therefore, administrators do not manually add, remove, or modify the records.

Stub zone records are also periodically refreshed, just like secondary zone records. However, secondary name servers contain a complete copy of the zone data on the primary server. Therefore, zone transfers from a primary server to a secondary server, or between secondary servers, can increase CPU usage and consume excessive bandwidth. A name server hosting a stub zone maintains a much smaller set of records; therefore, updates are less CPU intensive and consume less bandwidth. When a name server hosting a stub zone receives a query for a domain name that it determines is in the stub zone, the name server uses the records in the stub zone to locate the correct name server to query, eliminating the need to query the root server.

Object Reference

References to zone_stub are object references. The *name* part of a DNS Stub Zone object reference has the following components:

- FQDN of the zone
- Name of the view

Example:

```
# Using _ref
zone_stub/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

# Using UUID
zone_stub/123e4567e89b12d3a456426614174000
```

Restrictions

The object does not support the following operations:

- Global search (searches via the search object)
- CSV export

The object cannot be managed on Cloud Platform members.

Fields

These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.

The basic version of the object contains the field(s): **fqdn, stub_from, uuid, view**.

The following fields are required to create this object:

Field	Notes
fqdn	
stub_from	

address

`address`

The IP address of the server that is serving this zone.

Type

String.

Search

The field is not available for search.

Notes

The address cannot be updated.

address cannot be written.

comment

`comment`

Comment for the zone; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

disable

`disable`

Determines whether a zone is disabled or not. When this is set to False, the zone is enabled.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

disable_forwarding

`disable_forwarding`

Determines if the name servers that host the zone should not forward queries that end with the domain name of the zone to any configured forwarders.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

display_domain

display_domain

The displayed name of the DNS zone.

Type

String.

Search

The field is not available for search.

Notes

The display_domain cannot be updated.

display_domain cannot be written.

dns_fqdn

dns_fqdn

The name of this DNS zone in punycode format. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format in punycode format.

Type

String.

Search

The field is not available for search.

Notes

The dns_fqdn cannot be updated.

dns_fqdn cannot be written.

extattrs

extattrs

Extensible attributes associated with the object.

For valid values for extensible attributes, see the following information.

Type

Extensible attributes.

This field allows +/- to be specified as part of the field name

when updating the object, see the following information.

Create

The default value is *empty*.

Search

For how to search extensible attributes, see the following information.

external_ns_group

`external_ns_group`

A forward stub server name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

fqdn

`fqdn`

The name of this DNS zone. For a reverse zone, this is in “address/cidr” format. For other zones, this is in FQDN format. This value can be in unicode format.

Note that for a reverse zone, the corresponding zone_format value should be set.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Search

The field is available for search via

- '~=' (regular expression)
- '=' (exact equality)

Notes

The fqdn is part of the base object.

The fqdn cannot be updated.

locked

`locked`

If you enable this flag, other administrators cannot make conflicting changes. This is for administration purposes only. The zone will continue to serve DNS data even when it is locked.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

locked_by

`locked_by`

The name of a superuser or the administrator who locked this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The locked_by cannot be updated.

locked_by cannot be written.

mask_prefix

`mask_prefix`

IPv4 Netmask or IPv6 prefix for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The mask_prefix cannot be updated.

mask_prefix cannot be written.

mgm_private

`mgm_private`

This field controls whether this object is synchronized with the Multi-Grid Master. If this field is set to True, objects are not synchronized.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

mgm_private_overridable

`mgm_private_overridable`

This field is assumed to be True unless filled by any conforming objects, such as Network, IPv6 Network, Network Container, IPv6 Network Container, and Network View. This value is set to False if mgm_private is set to True in the parent object.

Type

Bool.

Search

The field is not available for search.

Notes

The mgm_private_overridable cannot be updated.

mgm_private_overridable cannot be written.

ms_ad_integrated

`ms_ad_integrated`

The flag that determines whether Active Directory is integrated or not. This field is valid only when ms_managed is “STUB”, “AUTH_PRIMARY”, or “AUTH_BOTH”.

Type

Bool.

Create

The default value is *False*.

Search

The field is not available for search.

ms_ddns_mode

`ms_ddns_mode`

Determines whether an Active Directory-integrated zone with a Microsoft DNS server as primary allows dynamic updates. Valid values are:

“SECURE” if the zone allows secure updates only.

“NONE” if the zone forbids dynamic updates.

“ANY” if the zone accepts both secure and nonsecure updates.

This field is valid only if ms_managed is either “AUTH_PRIMARY” or “AUTH_BOTH”. If the flag ms_ad_integrated is false, the value “SECURE” is not allowed.

Type

String.

Valid values are:

- ANY
- NONE
- SECURE

Create

The default value is *NONE*.

Search

The field is not available for search.

ms_managed

`ms_managed`

The flag that indicates whether the zone is assigned to a Microsoft DNS server. This flag returns the authoritative name server type of the Microsoft DNS server. Valid values are:

“NONE” if the zone is not assigned to any Microsoft DNS server.

“STUB” if the zone is assigned to a Microsoft DNS server as a stub zone.

“AUTH_PRIMARY” if only the primary server of the zone is a Microsoft DNS server.

“AUTH_SECONDARY” if only the secondary server of the zone is a Microsoft DNS server.

“AUTH_BOTH” if both the primary and secondary servers of the zone are Microsoft DNS servers.

Type

String.

Valid values are:

- AUTH_BOTH
- AUTH_PRIMARY
- AUTH_SECONDARY
- NONE
- STUB

Search

The field is not available for search.

Notes

The ms_managed cannot be updated.

ms_managed cannot be written.

ms_read_only

ms_read_only

Determines if a Grid member manages the zone served by a Microsoft DNS server in read-only mode. This flag is true when a Grid member manages the zone in read-only mode, false otherwise.

When the zone has the ms_read_only flag set to True, no changes can be made to this zone.

Type

Bool.

Search

The field is not available for search.

Notes

The ms_read_only cannot be updated.

ms_read_only cannot be written.

ms_sync_master_name

ms_sync_master_name

The name of MS synchronization master for this zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

ns_group

ns_group

A stub member name server group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

parent

`parent`

The parent zone of this zone.

Note that when searching for reverse zones, the “in-addr.arpa” notation should be used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

The parent cannot be updated.

parent cannot be written.

prefix

`prefix`

The RFC2317 prefix value of this DNS zone.

Use this field only when the netmask is greater than 24 bits; that is, for a mask between 25 and 31 bits. Enter a prefix, such as the name of the allocated address block. The prefix can be alphanumeric characters, such as 128/26 , 128-189 , or sub-B.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Search

The field is not available for search.

soa_email

`soa_email`

The SOA email for the zone. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The soa_email cannot be updated.

soa_email cannot be written.

soa_expire

`soa_expire`

This setting defines the amount of time, in seconds, after which the secondary server stops giving out answers about the zone because the zone data is too old to be useful.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The soa_expire cannot be updated.

soa_expire cannot be written.

soa_mname

soa_mname

The SOA mname value for this zone. The Infoblox appliance allows you to change the name of the primary server on the SOA record that is automatically created when you initially configure a zone. Use this method to change the name of the primary server on the SOA record. For example, you may want to hide the primary server for a zone. If your device is named dns1.zone.tld, and for security reasons, you want to show a secondary server called dns2.zone.tld as the primary server. To do so, you would go to dns1.zone.tld zone (being the true primary) and change the primary server on the SOA to dns2.zone.tld to hide the true identity of the real primary server. This value can be in unicode format.

Type

String.

Values with leading or trailing white space are not valid for this field.

Search

The field is not available for search.

Notes

The soa_mname cannot be updated.

soa_mname cannot be written.

soa_negative_ttl

soa_negative_ttl

The negative Time to Live (TTL) value of the SOA of the zone indicates how long a secondary server can cache data for “Does Not Respond” responses.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The soa_negative_ttl cannot be updated.

soa_negative_ttl cannot be written.

soa_refresh

`soa_refresh`

This indicates the interval at which a secondary server sends a message to the primary server for a zone to check that its data is current, and retrieve fresh data if it is not.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The soa_refresh cannot be updated.

soa_refresh cannot be written.

soa_retry

`soa_retry`

This indicates how long a secondary server must wait before attempting to recontact the primary server after a connection failure between the two servers occurs.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The soa_retry cannot be updated.

soa_retry cannot be written.

soa_serial_number

`soa_serial_number`

The serial number in the SOA record incrementally changes every time the record is modified. The Infoblox appliance allows you to change the serial number (in the SOA record) for the primary server so it is higher than the secondary server, thereby ensuring zone transfers come from the primary server.

Type

Unsigned integer.

Search

The field is not available for search.

Notes

The soa_serial_number cannot be updated.

soa_serial_number cannot be written.

stub_from

`stub_from`

The primary servers (masters) of this stub zone.

Type

A/An External Server struct array.

Create

The field is required on creation.

Search

The field is not available for search.

Notes

The stub_from is part of the base object.

stub_members

`stub_members`

The Grid member servers of this stub zone.

Note that the lead/stealth/grid_replicate/ preferred_primaries/override_preferred_primaries fields of the struct will be ignored when set in this field.

Type

A/An Member Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

stub_msservers

`stub_msservers`

The Microsoft DNS servers of this stub zone.

Note that the stealth field of the struct will be ignored when set in this field.

Type

A/An Msserver Server struct array.

Create

The default value is:

```
empty
```

Search

The field is not available for search.

using_srg_associations

`using_srg_associations`

This is true if the zone is associated with a shared record group.

Type

Bool.

Search

The field is not available for search.

Notes

The using_srg_associations cannot be updated.

using_srg_associations cannot be written.

uuid

uuid

Universally Unique ID assigned for this object

Type

String.

Search

The field is available for search via

- '~=' (regular expression)
- ':=' (case insensitive search)
- '=' (exact equality)

Notes

The uuid is part of the base object.

The uuid cannot be updated.

uuid cannot be written.

view

view

The name of the DNS view in which the zone resides. Example "external".

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *The default DNS view*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The view is part of the base object.

zone_format

zone_format

Determines the format of this zone.

Type

String.

Valid values are:

- FORWARD
- IPV4
- IPV6

Create

The default value is *FORWARD*.

Search

The field is available for search via

- '=' (exact equality)

Notes

The zone_format cannot be updated.

Function Calls

lock_unlock_zone

This function is used to lock or unlock a zone to prevent other administrators from making conflicting changes.

This function does not support multiple object matches when called as part of an atomic insertion operation.

Input fields

operation (String. Valid values are: "LOCK", "UNLOCK"). This parameter is mandatory. The operation to perform.

Output fields

None

Fields List

Field	Type	Req	R/O	Base	Search
address	String	N	Y	N	N/A
comment	String	N	N	N	: = ~
disable	Bool	N	N	N	N/A
disable_forwarding	Bool	N	N	N	N/A
display_domain	String	N	Y	N	N/A

dns_fqdn	String	N	Y	N	N/A
extattrs	Extattr	N	N	N	ext
external_ns_group	String	N	N	N	N/A
fqdn	String	Y	N	Y	= ~
locked	Bool	N	N	N	N/A
locked_by	String	N	Y	N	N/A
mask_prefix	String	N	Y	N	N/A
mgm_private	Bool	N	N	N	N/A
mgm_private_overridable	Bool	N	Y	N	N/A
ms_ad_integrated	Bool	N	N	N	N/A
ms_ddns_mode	String	N	N	N	N/A
ms_managed	String	N	Y	N	N/A
ms_read_only	Bool	N	Y	N	N/A
ms_sync_master_name	String	N	Y	N	N/A
ns_group	String	N	N	N	N/A
parent	String	N	Y	N	=
prefix	String	N	N	N	N/A
soa_email	String	N	Y	N	N/A
soa_expire	Unsigned int	N	Y	N	N/A
soa_mname	String	N	Y	N	N/A
soa_negative_ttl	Unsigned int	N	Y	N	N/A
soa_refresh	Unsigned int	N	Y	N	N/A
soa_retry	Unsigned int	N	Y	N	N/A
soa_serial_number	Unsigned int	N	Y	N	N/A
stub_from	[struct]	Y	N	Y	N/A
stub_members	[struct]	N	N	N	N/A
stub_msservers	[struct]	N	N	N	N/A
using_srg_associations	Bool	N	Y	N	N/A
uuid	String	N	Y	Y	: = ~
view	String	N	N	Y	=
zone_format	String	N	N	N	=

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ad_auth_server : Active Directory Authentication Server.

Represents an AD authentication server (i.e., domain controller) that is used to authenticate administrators.

auth_port

`auth_port`

The authentication port.

Type

Unsigned integer.

Create

The default value is *389*.

comment

`comment`

The descriptive comment for the AD authentication server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

disabled

`disabled`

Determines if the AD authorization server is disabled.

Type

Bool.

Create

The default value is *False*.

encryption

`encryption`

The type of encryption to use.

Type

String.

Valid values are:
- NONE
- SSL

Create

The default value is *undefined*.

fqdn_or_ip

`fqdn_or_ip`

The FQDN (Fully Qualified Domain Name) or IP address of the server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

mgmt_port

`mgmt_port`

Determine if the MGMT port is enabled for the AD authentication server.

Type

Bool.

Create

The default value is *False*.

Notes

mgmt_port is associated with the field use_mgmt_port (see use flag).

use_mgmt_port

`use_mgmt_port`

Use flag for: mgmt_port

Type

Bool.

Create

The default value is *False*.

addressac : Address ac.

This struct represents an access control rule for an address.

address

`address`

The address this rule applies to or “Any”.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

permission

`permission`

The permission to use for this address.

Type

String.

Valid values are:

- ALLOW
- DENY

Create

The default value is *ALLOW*.

admingroup:adminsetcommands : Set commands

This structure contains the set commands for admin command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

et_bfd

`et_bfd`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_admin_group_acl

set_admin_group_acl

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_analytics_parameter

set_analytics_parameter

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_bfd

set_bfd

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_bgp

set_bgp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_clean_mscache

set_clean_mscache

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_collect_old_logs

`set_collect_old_logs`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_core_files_quota

`set_core_files_quota`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_debug

`set_debug`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_debug_analytics

`set_debug_analytics`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_delete_tasks_interval

`set_delete_tasks_interval`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_disable_gui_one_click_support

`set_disable_gui_one_click_support`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_enable_doh_key_logging

`set_enable_doh_key_logging`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_enable_dot_key_logging

`set_enable_dot_key_logging`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_expertmode

`set_expertmode`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_hardware_type

`set_hardware_type`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_hotfix

`set_hotfix`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_hsm_group

`set_hsm_group`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_hw_ident

`set_hw_ident`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ibtrap

`set_ibtrap`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_lines

`set_lines`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_maintenancemode

set_maintenancemode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_mgm

set_mgm

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ms_max_connection

set_ms_max_connection

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_nosafemode

set_nosafemode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ntp_stratum

set_ntp_stratum

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ocsp

set_ocsp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_pc_domain

set_pc_domain

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_purge_restart_objects

set_purge_restart_objects

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_query_logging_warnings

set_query_logging_warnings

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_report_frequency

set_report_frequency

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_reporting_user_capabilities

set_reporting_user_capabilities

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_rpz_recursive_only

set_rpz_recursive_only

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_safemode

set_safemode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_scheduled

set_scheduled

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_snmptrap

set_snmptrap

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_sysname

set_sysname

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_term

set_term

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_thresholdtrap

set_thresholdtrap

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_transfer_reporting_data

set_transfer_reporting_data

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_transfer_supportbundle

`set_transfer_supportbundle`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_wred

`set_wred`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:adminshowcommands : Show commands.

This structure contains the show commands for admin command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_admin_group_acl

show_admin_group_acl

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_analytics_parameter

show_analytics_parameter

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_arp

show_arp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_bfd

show_bfd

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_bgp

show_bgp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_capacity

show_capacity

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_clusterd_info

show_clusterd_info

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_config

show_config

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_cores

show_cores

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_coresummary

show_coresummary

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_cpu

show_cpu

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_csp_threat_db

show_csp_threat_db

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_date

show_date

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_debug

show_debug

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_debug_analytics

show_debug_analytics

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_delete_tasks_interval

`show_delete_tasks_interval`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_disk

`show_disk`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hardware_status

`show_hardware_status`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hardware_type

`show_hardware_type`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hsm_group

`show_hsm_group`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hsm_info

`show_hsm_info`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hw_ident

`show_hw_ident`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_hwid

`show_hwid`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ibtrap

`show_ibtrap`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_log

`show_log`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_logfiles

show_logfiles

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_memory

show_memory

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ntp

show_ntp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ntp_stratum

show_ntp_stratum

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_pc_domain

show_pc_domain

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_pmap

`show_pmap`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_process

`show_process`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_pstack

`show_pstack`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_query_logging_warnings

`show_query_logging_warnings`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_report_frequency

show_report_frequency

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_reporting_user_capabilities

show_reporting_user_capabilities

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_rpz_recursive_only

show_rpz_recursive_only

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_safenet_support_info

show_safenet_support_info

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_scheduled

show_scheduled

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_snmp

show_snmp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_status

show_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_tech_support

show_tech_support

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_temperature

show_temperature

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_thresholdtrap

show_thresholdtrap

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_upgrade_history

show_upgrade_history

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_uptime

show_uptime

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_version

show_version

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_wred_stats

show_wred_stats

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_wred_status

show_wred_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:admintoplevelcommands : Toplevel commands.

This structure contains the toplevel commands for admin command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

iostat

`iostat`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

netstat

`netstat`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

ps

ps

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

resilver

resilver

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

restart_product

restart_product

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

rndc

rndc

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

saml_restart

saml_restart

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

sar

sar

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

scrape

scrape

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

synctime

synctime

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

tcpdump

tcpdump

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

vmstat

vmstat

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:cloudsetcommands : Set commands.

This structure contains the set commands for cloud command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_cloud_services_portal

`set_cloud_services_portal`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_cloud_services_portal_force_refresh

`set_cloud_services_portal_force_refresh`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:cloudshowcommands : Show commands.

This structure contains the show commands for cloud command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_cloud_services_portal

show_cloud_services_portal

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:databasesetcommands : Set commands

This structure contains the set commands for database command group

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_circ_txn_trace

set_circ_txn_trace

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_database_transfer

set_database_transfer

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_db_rollover

set_db_rollover

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_db_snapshot

set_db_snapshot

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dbsize

set_dbsize

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_debug_tools

set_debug_tools

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_named_max_journal_size

set_named_max_journal_size

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_txn_trace

set_txn_trace

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:databaseshowcommands : Show commands.

This structure contains the show commands for database command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_backup

`show_backup`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_database_transfer_status

`show_database_transfer_status`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_db_ph

`show_db_ph`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dbsize

`show_dbsize`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ibdbstat

`show_ibdbstat`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_named_max_journal_size

`show_named_max_journal_size`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_txn_trace

`show_txn_trace`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dhcpsetcommands : Set commands.

This structure contains the set commands for DHCP command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_dhcpd_recv_sock_buf_size

`set_dhcpd_recv_sock_buf_size`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_log_txn_id

`set_log_txn_id`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_overload_bootp

`set_overload_bootp`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_regenerate_dhcp_updater_keys

`set_regenerate_dhcp_updater_keys`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dhcpshowcommands : show commands.

This structure contains the show commands for DHCP command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_dhcp_gss_tsig

`show_dhcp_gss_tsig`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dhcpd_recv_sock_buf_size

`show_dhcpd_recv_sock_buf_size`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dhcpv6_gss_tsig

show_dhcpv6_gss_tsig

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_log_txn_id

show_log_txn_id

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_overload_bootp

show_overload_bootp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dnssetcommands : Set commands.

This structure contains the set commands for DNS command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_allow_query_domain

`set_allow_query_domain`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dns

`set_dns`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dns_accel

`set_dns_accel`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dns_accel_debug

`set_dns_accel_debug`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dns_auto_gen

`set_dns_auto_gen`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dns_rrl

`set_dns_rrl`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_enable_dnstap

`set_enable_dnstap`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_enable_match_recursive_only

`set_enable_match_recursive_only`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_extra_dns_name_validations

`set_extra_dns_name_validations`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_log_guest_lookups

`set_log_guest_lookups`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_max_recursion_depth

`set_max_recursion_depth`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_max_recursion_queries

`set_max_recursion_queries`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_monitor

`set_monitor`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ms_dns_reports_sync_interval

`set_ms_dns_reports_sync_interval`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ms_sticky_ip

set_ms_sticky_ip

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_restart_anycast_with_dns_restart

set_restart_anycast_with_dns_restart

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_rpz_add_soa

set_rpz_add_soa

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dnsshowcommands : Show commands.

This structure contains the show commands for DNS command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_allow_query_domain

`show_allow_query_domain`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_allow_query_domain_views

`show_allow_query_domain_views`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns

`show_dns`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_accel

`show_dns_accel`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_accel_debug

`show_dns_accel_debug`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_gss_tsig

show_dns_gss_tsig

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_over_tls_config

show_dns_over_tls_config

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_over_tls_stats

show_dns_over_tls_stats

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_over_tls_status

show_dns_over_tls_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dns_rrl

show_dns_rrl

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dnstap_stats

show_dnstap_stats

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dnstap_status

show_dnstap_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_doh_config

show_doh_config

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_doh_stats

show_doh_stats

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_doh_status

show_doh_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dtc_ea

show_dtc_ea

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_dtc_geoip

show_dtc_geoip

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_enable_match_recursive_only

show_enable_match_recursive_only

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_extra_dns_name_validations

show_extra_dns_name_validations

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_log_guest_lookups

show_log_guest_lookups

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_max_recursion_depth

show_max_recursion_depth

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_max_recursion_queries

show_max_recursion_queries

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_monitor

show_monitor

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ms_sticky_ip

show_ms_sticky_ip

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_query_capture

`show_query_capture`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_restart_anycast_with_dns_restart

`show_restart_anycast_with_dns_restart`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_rpz_add_soa

`show_rpz_add_soa`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dnstoplevelcommands : Toplevel commands.

This structure contains the toplevel commands for DNS command group.

ddns_add

`ddns_add`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

ddns_delete

ddns_delete

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

delete

delete

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

dns_a_record_delete

dns_a_record_delete

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

admingroup:dockersetcommands : Set commands.

This structure contains the set commands for Docker command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_docker_bridge

`set_docker_bridge`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:dockershowcommands : Show commands.

This structure contains the show commands for Docker command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_docker_bridge

show_docker_bridge

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:gridsetcommands : Set commands.

This structure contains the set commands for Grid command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_default_revert_window

set_default_revert_window

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_dscp

set_dscp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_membership

set_membership

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_nogrid

set_nogrid

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_nomastergrid

set_nomastergrid

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_promote_master

set_promote_master

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_revert_grid

set_revert_grid

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_test_promote_master

set_test_promote_master

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_token

set_token

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:gridshowcommands : Show commands.

This structure contains the show commands for Grid command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_dscp

`show_dscp`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_test_promote_master

`show_test_promote_master`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_token

`show_token`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:licensingsetcommands : Set commands.

This structure contains the set commands for Licensing command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_license

set_license

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_reporting_reset_license

set_reporting_reset_license

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_temp_license

set_temp_license

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:licensingshowcommands : Show commands.

This structure contains the show commands for Licensing command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_license

`show_license`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_license_pool_container

`show_license_pool_container`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_license_uid

show_license_uid

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:lockoutsetting : lockout_setting

This is a new struct to specify security policy settings.

enable_sequential_failed_login_attempts_lockout

enable_sequential_failed_login_attempts_lockout

Enable/disable sequential failed login attempts lockout for local users

Type

Bool.

Create

The default value is *False*.

failed_lockout_duration

failed_lockout_duration

Time period the account remains locked after sequential failed login attempt lockout.

Type

Unsigned integer.

Create

The default value is *60*.

never_unlock_user

never_unlock_user

Never unlock option is also provided and if set then user account is locked forever and only super user can unlock this account

Type

Bool.

Create

The default value is *False*.

sequential_attempts

sequential_attempts

The number of failed login attempts

Type

Unsigned integer.

Create

The default value is *5*.

admingroup:machinecontroltoplevelcommands : Toplevel commands.

This structure contains the toplevel commands for machine controlcommand group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

reboot

`reboot`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

reset

`reset`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

restart

restart

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

shutdown

shutdown

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:networkingsetcommands : Set commands.

This structure contains the set commands for networkig command group.

disable_all

disable_all

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_connection_limit

set_connection_limit

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_default_route

`set_default_route`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_interface

`set_interface`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ip_rate_limit

`set_ip_rate_limit`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ipv6_disable_on_dad

`set_ipv6_disable_on_dad`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ipv6_neighbor

set_ipv6_neighbor

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ipv6_ospf

set_ipv6_ospf

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ipv6_status

set_ipv6_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_lom

set_lom

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_mld_version_1

set_mld_version_1

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_named_recv_sock_buf_size

set_named_recv_sock_buf_size

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_named_tcp_clients_limit

set_named_tcp_clients_limit

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_network

set_network

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_ospf

set_ospf

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_prompt

set_prompt

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_remote_console

set_remote_console

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_static_route

set_static_route

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_tcp_timestamps

set_tcp_timestamps

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_traffic_capture

set_traffic_capture

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_wins_forwarding

set_wins_forwarding

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:networkingshowcommands : Show commands.

This structure contains the show commands for networking command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_connection_limit

`show_connection_limit`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_connections

`show_connections`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_default_route

show_default_route

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_interface

show_interface

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_interface_stats

show_interface_stats

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ip_rate_limit

show_ip_rate_limit

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_iproute

show_iproute

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_iprule

show_iprule

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_iptables

show_iptables

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ipv6_bgp

show_ipv6_bgp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ipv6_disable_on_dad

show_ipv6_disable_on_dad

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ipv6_neighbor

show_ipv6_neighbor

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ipv6_ospf

`show_ipv6_ospf`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_lom

`show_lom`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_mld_version

`show_mld_version`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_mtu_size

`show_mtu_size`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_named_recv_sock_buf_size

`show_named_recv_sock_buf_size`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_named_tcp_clients_limit

show_named_tcp_clients_limit

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_network

show_network

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_network_connectivity

show_network_connectivity

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_ospf

show_ospf

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_remote_console

show_remote_console

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_routes

show_routes

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_static_routes

show_static_routes

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_tcp_timestamps

show_tcp_timestamps

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_traffic_capture_status

show_traffic_capture_status

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_trafficfiles

show_trafficfiles

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_wins_forwarding

`show_wins_forwarding`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:passwordsetting : Password settings.

This structure contains password settings related to each admin groups.

expire_days

`expire_days`

The days that password must expire

Type

Unsigned integer.

Create

The default value is *30*.

expire_enable

`expire_enable`

Whether password expiry enabled or not.

Type

Bool.

Create

The default value is *False*.

reminder_days

`reminder_days`

Days to show up reminder prior to expiration

Type

Unsigned integer.

Create

The default value is *15*.

admingroup:samlsetting : SAML settings.

This structure contains SAML settings related to each admin group.

auto_create_user

`auto_create_user`

Whether or not auto create user.

Type

Bool.

Create

The default value is *False*.

persist_auto_created_user

`persist_auto_created_user`

Whether or not persist auto created user after logout.

Type

Bool.

Create

The default value is *False*.

admingroup:securitysetcommands : Set commands.

This structure contains the set commands for security command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

set_adp

set_adp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_adp_debug

set_adp_debug

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_apache_https_cert

set_apache_https_cert

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_cc_mode

set_cc_mode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_certificate_auth_admins

set_certificate_auth_admins

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_certificate_auth_services

set_certificate_auth_services

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_check_auth_ns

set_check_auth_ns

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_check_ssl_certificate

set_check_ssl_certificate

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_disable_https_cert_regeneration

set_disable_https_cert_regeneration

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_fips_mode

set_fips_mode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_reporting_cert

set_reporting_cert

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_security

set_security

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_session_timeout

set_session_timeout

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_subscriber_secure_data

set_subscriber_secure_data

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_support_access

set_support_access

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_support_install

`set_support_install`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_support_timeout

`set_support_timeout`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

set_update_rabbitmq_password

`set_update_rabbitmq_password`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:securityshowcommands : Show commands.

This structure contains the show commands for security command group.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

enable_all

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

show_adp

show_adp

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_adp_debug

show_adp_debug

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_cc_mode

show_cc_mode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_certificate_auth_admins

show_certificate_auth_admins

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_certificate_auth_services

show_certificate_auth_services

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_check_auth_ns

show_check_auth_ns

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_check_ssl_certificate

show_check_ssl_certificate

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_fips_mode

show_fips_mode

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_security

show_security

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_session_timeout

show_session_timeout

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_subscriber_secure_data

show_subscriber_secure_data

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_support_access

show_support_access

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_support_timeout

show_support_timeout

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

show_vpn_cert_dates

show_vpn_cert_dates

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

admingroup:troubleshootingtoplevelcommands : Toplevel commands.

This structure contains the toplevel commands for Trobleshooting command group.

console

`console`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

dig

`dig`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

disable_all

`disable_all`

If True then disable all fields

Type

Bool.

Create

The default value is *False*.

enable_all

`enable_all`

If True then enable all fields

Type

Bool.

Create

The default value is *False*.

ping

`ping`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

ping6

`ping6`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

rotate

`rotate`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

snmpget

`snmpget`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

snmpwalk

`snmpwalk`

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

strace

strace

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

tracepath

tracepath

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

traceroute

traceroute

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

traffic_capture

traffic_capture

If True then CLI user has permission to run the command

Type

Bool.

Create

The default value is *False*.

adsites : Microsoft Server AD Sites.

This structure contains information about the Microsoft Server Active Directory Sites.

default_ip_site_link

default_ip_site_link

Default IP site link for sites created from NIOS

Type

String.

Create

The default value is *undefined*.

Notes

default_ip_site_link is associated with the field use_default_ip_site_link (see use flag).

last_sync_detail

`last_sync_detail`

The detailed status of the last synchronization attempt.

Type

String.

Notes

The last_sync_detail cannot be updated.

last_sync_detail cannot be written.

last_sync_status

`last_sync_status`

Status of the last synchronization attempt

Type

String.

Valid values are:

- MS_SYNC_ERROR
- MS_SYNC_OK
- MS_SYNC_WARNING

Notes

The last_sync_status cannot be updated.

last_sync_status cannot be written.

last_sync_ts

`last_sync_ts`

Timestamp of the last synchronization attempt

Type

Timestamp.

Notes

The last_sync_ts cannot be updated.

last_sync_ts cannot be written.

ldap_auth_port

ldap_auth_port

TCP port for LDAP connections for this

Type

Unsigned integer.

Create

The default value is *undefined*.

ldap_encryption

ldap_encryption

Encryption for LDAP connections for this MS Server

Type

String.

Valid values are:

- NONE
- SSL

Create

The default value is *undefined*.

ldap_timeout

ldap_timeout

Timeout in seconds for LDAP connections for this MS Server

Type

Unsigned integer.

Create

The default value is *undefined*.

Notes

ldap_timeout is associated with the field use_ldap_timeout (see use flag).

login_name

login_name

Microsoft Server login name, with optional

Type

String.

Create

The default value is *undefined*.

Notes

login_name is associated with the field use_login (see use flag).

login_password

login_password

Microsoft Server login password.

Type

String.

Create

The default value is *undefined*.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

managed

managed

Controls whether the Sites of this MS Server are to be synchronized by the assigned managing member or not

Type

Bool.

Create

The default value is *False*.

read_only

read_only

Enable/disable read-only synchronization of Sites for this Active Directory domain

Type

Bool.

Create

The default value is *False*.

supports_ipv6

supports_ipv6

Flag indicating if the server supports IPv6

Type

Bool.

Notes

The supports_ipv6 cannot be updated.

supports_ipv6 cannot be written.

synchronization_min_delay

synchronization_min_delay

Minimum number of minutes between two synchronizations

Type

Unsigned integer.

Create

The default value is *undefined*.

Notes

synchronization_min_delay is associated with the field use_synchronization_min_delay (see use flag).

use_default_ip_site_link

use_default_ip_site_link

Flag to override MS Server default IP site link

Type

Bool.

Create

The default value is *False*.

use_ldap_timeout

use_ldap_timeout

Flag to override cluster LDAP timeoutMS Server

Type

Bool.

Create

The default value is *False*.

use_login

use_login

Flag to override login name and password from the MS Server

Type

Bool.

Create

The default value is *False*.

use_synchronization_min_delay

use_synchronization_min_delay

Flag to override synchronization interval from the MS Server

Type

Bool.

Create

The default value is *False*.

awsrte53recordinfo : ‘Aws Rte53 Record Info.

Additional information for Route53 resource record.

alias_target_dns_name

`alias_target_dns_name`

DNS name of the alias target.

Type

String.

Notes

The alias_target_dns_name cannot be updated.

alias_target_dns_name cannot be written.

alias_target_evaluate_target_health

`alias_target_evaluate_target_health`

Indicates if Amazon Route 53 evaluates the health of the alias target.

Type

Bool.

Notes

The alias_target_evaluate_target_health cannot be updated.

alias_target_evaluate_target_health cannot be written.

alias_target_hosted_zone_id

`alias_target_hosted_zone_id`

Hosted zone ID of the alias target.

Type

String.

Notes

The alias_target_hosted_zone_id cannot be updated.

alias_target_hosted_zone_id cannot be written.

failover

`failover`

Indicates whether this is the primary or secondary resource record for Amazon Route 53 failover routing.

Type

String.

Valid values are:

- PRIMARY
- SECONDARY

Notes

The failover cannot be updated.

failover cannot be written.

geolocation_continent_code

`geolocation_continent_code`

Continent code for Amazon Route 53 geolocation routing.

Type

String.

Notes

The geolocation_continent_code cannot be updated.

geolocation_continent_code cannot be written.

geolocation_country_code

`geolocation_country_code`

Country code for Amazon Route 53 geolocation routing.

Type

String.

Notes

The geolocation_country_code cannot be updated.

geolocation_country_code cannot be written.

geolocation_subdivision_code

`geolocation_subdivision_code`

Subdivision code for Amazon Route 53 geolocation routing.

Type

String.

Notes

The geolocation_subdivision_code cannot be updated.

geolocation_subdivision_code cannot be written.

health_check_id

`health_check_id`

ID of the health check that Amazon Route 53 performs for this resource record.

Type

String.

Notes

The health_check_id cannot be updated.

health_check_id cannot be written.

region

region

Amazon EC2 region where this resource record resides for latency routing.

Type

String.

Notes

The region cannot be updated.

region cannot be written.

set_identifier

set_identifier

An identifier that differentiates records with the same DNS name and type for weighted, latency, geolocation, and failover routing.

Type

String.

Notes

The set_identifier cannot be updated.

set_identifier cannot be written.

type

type

Type of Amazon Route 53 resource record.

Type

String.

Valid values are:

- A
- AAAA
- CNAME
- MX
- NS
- PTR
- SOA
- SPF
- SRV
- TXT

Notes

The type cannot be updated.

type cannot be written.

weight

weight

Value that determines the portion of traffic for this record in weighted routing. The range is from 0 to 255.

Type

Unsigned integer.

Notes

The weight cannot be updated.

weight cannot be written.

awsrte53task : AWS Route53 task.

This struct represents a single AWS Route53 sync task with various zone filters to retrieve DNS zone data from AWS Route53 service using specified AWS user credentials.

aws_user

`aws_user`

Reference to associated AWS user whose credentials are to be used for this task.

Type

String.

This field supports nested return fields as described here.

Create

The network view required if network_view_mapping_policy is set to DIRECT

credentials_type

`credentials_type`

Credentials type used for connecting to the cloud management platform.

Type

String.

Valid values are:

- DIRECT
- INDIRECT

Create

The default value is *DIRECT*.

disabled

`disabled`

Indicates if the task is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

filter

`filter`

Filter for this task.

Type

String.

Create

The default value is *.

last_run

`last_run`

The timestamp when the task was started last.

Type

Timestamp.

Notes

The last_run cannot be updated.

last_run cannot be written.

name

`name`

The name of this task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

schedule_interval

`schedule_interval`

Periodic interval for this task.

Type

Unsigned integer.

Create

The default value is *60*.

schedule_units

`schedule_units`

Units for the schedule interval.

Type

String.

Valid values are:

- DAYS
- HOURS
- MINS

Create

The default value is *MINS*.

state

`state`

Indicate the sync status of this task.

Type

String.

Valid values are:

- CANCELED
- COMPLETED
- FAILED
- IDLE
- PARTIALLY_COMPLETED
- READY
- RUNNING

Notes

The state cannot be updated.

state cannot be written.

state_msg

`state_msg`

State message for the task.

Type

String.

Notes

The state_msg cannot be updated.

state_msg cannot be written.

status_timestamp

`status_timestamp`

The timestamp when the last state was logged.

Type

Timestamp.

Notes

The status_timestamp cannot be updated.

status_timestamp cannot be written.

sync_private_zones

`sync_private_zones`

Indicates whether private zones are synchronized.

Type

Bool.

Create

The default value is *True*.

sync_public_zones

sync_public_zones

Indicates whether public zones are synchronized.

Type

Bool.

Create

The default value is *True*.

zone_count

zone_count

The number of zones synchronized by this task.

Type

Unsigned integer.

Notes

The zone_count cannot be updated.

zone_count cannot be written.

awsrte53zoneinfo : ‘Aws Rte53 Zone Info.

Additional information for Route53 zone.

associated_vpcs

associated_vpcs

List of AWS VPC strings that are associated with this zone.

Type

String array.

Notes

The associated_vpcs cannot be updated.

associated_vpcs cannot be written.

caller_reference

caller_reference

User specified caller reference when zone was created.

Type

String.

Notes

The caller_reference cannot be updated.

caller_reference cannot be written.

delegation_set_id

`delegation_set_id`

ID of delegation set associated with this zone.

Type

String.

Notes

The delegation_set_id cannot be updated.

delegation_set_id cannot be written.

hosted_zone_id

`hosted_zone_id`

AWS route 53 assigned ID for this zone.

Type

String.

Notes

The hosted_zone_id cannot be updated.

hosted_zone_id cannot be written.

name_servers

`name_servers`

List of AWS name servers that are authoritative for this domain name.

Type

String array.

Notes

The name_servers cannot be updated.

name_servers cannot be written.

record_set_count

`record_set_count`

Number of resource record sets in the hosted zone.

Type

Unsigned integer.

Notes

The record_set_count cannot be updated.

record_set_count cannot be written.

type

type

Indicates whether private or public zone.

Type

String.

Valid values are:

- PRIVATE
- PUBLIC

Notes

The type cannot be updated.

type cannot be written.

azurednstask : Azure DNS task.

This struct represents a single Azure DNS sync task with various zone filters to retrieve DNS zone data from Azure service using specified Azure user credentials.

azure_user

azure_user

Reference to associated Azure user whose credentials are to be used for this task.

Type

String.

This field supports nested return fields as described here.

Create

The network view required if network_view_mapping_policy is set to DIRECT

credentials_type

credentials_type

Credentials type used for connecting to the cloud management platform.

Type

String.

Valid values are:

- DIRECT
- INDIRECT

Create

The default value is *DIRECT*.

disabled

disabled

Indicates if the task is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

filter

`filter`

Filter for this task.

Type

String.

Create

The default value is *.

last_run

`last_run`

The timestamp when the task was started last.

Type

Timestamp.

Notes

The last_run cannot be updated.

last_run cannot be written.

name

`name`

The name of this task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

schedule_interval

`schedule_interval`

Periodic interval for this task.

Type

Unsigned integer.

Create

The default value is *60*.

schedule_units

`schedule_units`

Units for the schedule interval.

Type

String.

Valid values are:

- DAYS
- HOURS
- MINS

Create

The default value is *MINS*.

state

`state`

Indicate the sync status of this task.

Type

String.

Valid values are:

- CANCELED
- COMPLETED
- FAILED
- IDLE
- PARTIALLY_COMPLETED
- READY
- RUNNING

Notes

The state cannot be updated.

state cannot be written.

state_msg

`state_msg`

State message for the task.

Type

String.

Notes

The state_msg cannot be updated.

state_msg cannot be written.

status_timestamp

`status_timestamp`

The timestamp when the last state was logged.

Type

Timestamp.

Notes

The status_timestamp cannot be updated.

status_timestamp cannot be written.

sync_private_zones

sync_private_zones

Indicates whether private zones are synchronized.

Type

Bool.

Create

The default value is *True*.

sync_public_zones

sync_public_zones

Indicates whether public zones are synchronized.

Type

Bool.

Create

The default value is *True*.

zone_count

zone_count

The number of zones synchronized by this task.

Type

Unsigned integer.

Notes

The zone_count cannot be updated.

zone_count cannot be written.

bgpas : BGP (Border Gateway Protocol) Autonomous System (AS)

Represents a BGP Autonomous System configured at the grid member level.

as

as

The number of this autonomous system.

Type

Unsigned integer.

Create

The field is required on creation.

holddown

holddown

The AS holddown timer (in seconds). The valid value is from 3 to 65535.

Type

Unsigned integer.

Create

The default value is *16*.

keepalive

keepalive

The AS keepalive timer (in seconds). The valid value is from 1 to 21845.

Type

Unsigned integer.

Create

The default value is *4*.

link_detect

link_detect

Determines if link detection on the interface is enabled or not.

Type

Bool.

Create

The default value is *False*.

neighbors

neighbors

The BGP neighbors for this AS.

Type

A/An BGP (Border Gateway Protocol) Neighbor struct array.

Create

The default value is:

```
empty
```

bgpneighbor : BGP (Border Gateway Protocol) Neighbor.

Represents the BGP neighbor that is configured in an autonomous system (AS). BGP neighbors are configured at the Grid member level.

authentication_mode

authentication_mode

The BGP authentication mode.

Type

String.

Valid values are:

- MD5
- NONE

Create

The field is required on creation.

bfd_template

`bfd_template`

The BFD template name.

Type

String.

Create

The default value is *empty*.

bgp_neighbor_pass

`bgp_neighbor_pass`

The password for a BGP neighbor. This is required only if authentication_mode is set to “MD5”. When the password is entered, the value is preserved even if authentication_mode is changed to “NONE”. This is a write-only attribute.

Type

String.

Create

A password is required when BGP authentication is enabled

Notes

bgp_neighbor_pass is not readable.

comment

`comment`

User comments for this BGP neighbor.

Type

String.

Create

The default value is *empty*.

enable_bfd

`enable_bfd`

Determines if BFD is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_bfd_dnscheck

`enable_bfd_dnscheck`

Determines if BFD internal DNS monitor is enabled or not.

Type

Bool.

Create

The default value is *True*.

interface

`interface`

The interface that sends BGP advertisement information.

Type

String.

Valid values are:

- LAN_HA

Create

The field is required on creation.

multihop

`multihop`

Determines if the multi-hop support is enabled or not.

Type

Bool.

Create

The default value is *False*.

multihop_ttl

`multihop_ttl`

The Time To Live (TTL) value for multi-hop. Valid values are between 1 and 255.

Type

Unsigned integer.

Create

The default value is *255*.

neighbor_ip

neighbor_ip

The IP address of the BGP neighbor.

Type

String.

Create

The field is required on creation.

remote_as

remote_as

The remote AS number of the BGP neighbor.

Type

Unsigned integer.

Create

The field is required on creation.

capacityreport:objectcount : Type count struct.

The structure contains pair of the object type name and number of it's instances created for particular Grid member. This structure is retrieved as part of capacity report object.

count

count

Number of object type instances created.

Type

Unsigned integer.

Notes

The count cannot be updated.

count cannot be written.

type_name

type_name

Object type name.

Type

String.

Notes

The type_name cannot be updated.

type_name cannot be written.

captiveportal:file : Captive portal file.

This structure is used to represent files uploaded to the captive portal.

name

`name`

The name of the uploaded file.

Type

String.

Create

The default value is *undefined*.

type

`type`

The type of the uploaded file.

Type

String.

Valid values are:

- AUP
- IMG_FOOTER
- IMG_HEADER
- IMG_LOGO

Create

The default value is *undefined*.

changedobject : Changed object information.

This struct contains information about changes to be made to the specified object.

action

`action`

This is a description of the action that is applied to this object.

Type

String.

Valid values are:

- Add
- Configure Grid
- Convert IPv4 Lease
- Convert IPv6 Lease
- Delete
- Lock/Unlock Zone
- Modify
- Network Discovery
- Reset Grid
- Restart Services
- Restart Services
- Upgrade Grid

Notes

The action cannot be updated.

action cannot be written.

name

name

The object name.

Type

String.

Notes

The name cannot be updated.

name cannot be written.

object_type

object_type

The object type. This is undefined if the object is not yet supported.

Type

String.

Notes

The object_type cannot be updated.

object_type cannot be written.

properties

properties

A list of properties that are being changed.

Type

String array.

Notes

The properties cannot be updated.

properties cannot be written.

type

type

A value of the object type, this may contain objects that are not yet available in WAPI.

Type

String.

Notes

The type cannot be updated.

type cannot be written.

ciscoise:eaassociation : Cisco ISE extensible attribute association struct.

The structure contains the Cisco ISE attributes allowed for subscription and the NIOS extensible attribute definition name the Cisco ISE attribute is mapped on.

mapped_ea

`mapped_ea`

The name of the extensible attribute definition object the Cisco ISE attribute that is enabled for subscription is mapped on.

Type

String.

Create

The field is required on creation.

name

`name`

The Cisco ISE attribute name that is enabled for publishing from a Cisco ISE endpoint.

Type

String.

Valid values are:

- ACCOUNT_SESSION_ID
- AUDIT_SESSION_ID
- EPS_STATUS
- IP_ADDRESS
- MAC
- NAS_IP_ADDRESS
- NAS_PORT_ID
- POSTURE_STATUS
- POSTURE_TIMESTAMP

Create

The field is required on creation.

ciscoise:publishsetting : Cisco ISE publish settings struct.

This structure contains list of NIOS extensible attributes that are allowed for publishing to Cisco ISE endpoint.

enabled_attributes

`enabled_attributes`

The list of NIOS extensible attributes enabled for publishing to Cisco ISE endpoint.

Type

Enum values array.

Valid values are:

- CLIENT_ID
- FINGERPRINT
- HOSTNAME
- INFOBLOX_MEMBER
- IPADDRESS
- LEASE_END_TIME

- LEASE_START_TIME
- LEASE_STATE
- MAC_OR_DUID
- NETBIOS_NAME

Create

The field is required on creation.

ciscoise:subscribesetting : Cisco ISE subscribe settings struct.

This structure contains settings for subscription of the Cisco ISE attributes and mapping of them to a NIOS extensible attributes.

enabled_attributes

`enabled_attributes`

The list of Cisco ISE attributes allowed for subscription.

Type

Enum values array.

Valid values are:

- DOMAINNAME
- ENDPOINT_PROFILE
- SECURITY_GROUP
- SESSION_STATE
- SSID
- USERNAME
- VLAN

Create

The field is required on creation.

mapped_ea_attributes

`mapped_ea_attributes`

The list of NIOS extensible attributes to Cisco ISE attributes mappings.

Type

A/An Cisco ISE extensible attribute association struct struct array.

Create

The default value is:

```
empty
```

clientsubnetdomain : The client subnet domain structure.

The client subnet domain structure represents the zone domain name that is allowed or forbidden for the EDNS client subnet (ECS) recursion.

domain

`domain`

The FQDN that represents the ECS zone domain name.

Type

String.

Create

The field is required on creation.

permission

`permission`

The ECS domain name permission.

Type

String.

Valid values are:

- ALLOW
- DENY

Create

The default value is *ALLOW*.

dhcpddns : Ddns Zone Primary.

The object is used to configure Multi-Grid Master preferences for updates from DHCP to Multi-Grid Master zones.

dns_ext_primary

`dns_ext_primary`

The IP address of the External server. Valid when zone_match is “EXTERNAL” or “ANY_EXTERNAL”.

Type

String.

Create

Field dns_ext_primary is required if zone_match is “EXTERNAL” or “ANY_EXTERNAL”.

dns_ext_zone

`dns_ext_zone`

The name of external zone in FQDN format.

Type

String.

Create

Field dns_ext_zone is required if zone_match is “EXTERNAL”.

dns_grid_primary

`dns_grid_primary`

The name of a Grid member.

Type

String.

Create

Field dns_grid_primary is required if zone_match is “GRID” or “ANY_GRID”.

dns_grid_zone

`dns_grid_zone`

The ref of a DNS zone.

Type

String.

Create

Field dns_grid_zone is required if zone_match is “GRID”.

zone_match

`zone_match`

Indicate matching type.

Type

String.

Valid values are:

- ANY_EXTERNAL
- ANY_GRID
- EXTERNAL
- GRID

Create

The field is required on creation.

dhcpmember : Grid member serving DHCP.

This struct contains the name and address of the Grid Member serving DHCP.

ipv4addr

`ipv4addr`

The IPv4 Address of the Grid Member.

Type

String.

Create

The default value is *undefined*.

ipv6addr

`ipv6addr`

The IPv6 Address of the Grid Member.

Type

String.

Create

The default value is *undefined*.

name

`name`

The Grid member name

Type

String.

Create

The default value is *undefined*.

dhcpoption : DHCP option.

An option sets the value of a DHCP option that has been defined in an option space. DHCP options describe network configuration settings and various services available on the network. These options occur as variable-length fields at the end of DHCP messages.

When defining a DHCP option, at least a ‘name’ or a ‘num’ is required.

name

`name`

Name of the DHCP option.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

num

`num`

The code of the DHCP option.

Type

Unsigned integer.

Create

The default value is *undefined*.

use_option

`use_option`

Only applies to special options that are displayed separately from other options and have a use flag.

These options are:

- routers
- router-templates
- domain-name-servers
- domain-name
- broadcast-address
- broadcast-address-offset
- dhcp-lease-time
- dhcp6.name-servers

Type

Bool.

Create

The default value is *True*.

value

`value`

Value of the DHCP option

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

vendor_class

`vendor_class`

The name of the space this DHCP option is associated to.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *DHCP*.

dhcpserver : Microsoft Server DHCP Properties struct for MsServer Object

This structure contains MS server DHCP properties

enable_invalid_mac

`enable_invalid_mac`

Enable Invalid Mac Address

Type

Bool.

Create

The default value is *undefined*.

Notes

enable_invalid_mac is associated with the field use_enable_invalid_mac (see use flag).

enable_monitoring

`enable_monitoring`

Flag indicating if the DHCP service is monitored and controlled

Type

Bool.

Create

The default value is *undefined*.

Notes

enable_monitoring is associated with the field use_enable_monitoring (see use flag).

login_name

`login_name`

Microsoft Server login name

Type

String.

Create

The default value is *empty*.

Notes

login_name is associated with the field use_login (see use flag).

login_password

`login_password`

Microsoft Server login password

Type

String.

Create

The default value is *undefined*.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

managed

`managed`

flag indicating if the DHCPv4 service is managed

Type

Bool.

Create

The default value is *undefined*.

next_sync_control

`next_sync_control`

Defines what control to apply on the DHCP server

Type

String.

Valid values are:

- NONE
- START
- STOP

Create

The default value is *undefined*.

status

`status`

Status of the Microsoft DHCP Service

Type

String.

Valid values are:

- OFFLINE
- UNKNOWN

Notes

The status cannot be updated.

status cannot be written.

status_last_updated

`status_last_updated`

Timestamp of the last update

Type

Timestamp.

Notes

The status_last_updated cannot be updated.

status_last_updated cannot be written.

supports_failover

`supports_failover`

Flag indicating if the DHCP supports Failover

Type

Bool.

Notes

The supports_failover cannot be updated.

supports_failover cannot be written.

synchronization_min_delay

`synchronization_min_delay`

Minimum number of minutes between two synchronizations

Type

Unsigned integer.

Create

The default value is *18*.

Notes

synchronization_min_delay is associated with the field use_synchronization_min_delay (see use flag).

use_enable_invalid_mac

`use_enable_invalid_mac`

Override setting for Enable Invalid Mac Address

Type

Bool.

Create

The default value is *False*.

use_enable_monitoring

`use_enable_monitoring`

Override enable monitoring inherited from grid level

Type

Bool.

Create

The default value is *False*.

use_login

`use_login`

Flag to override login name and password from the MS Server

Type

Bool.

Create

The default value is *undefined*.

use_synchronization_min_delay

use_synchronization_min_delay

Flag to override synchronization interval from the MS Server

Type

Bool.

Create

The default value is *False*.

v6_managed

v6_managed

flag indicating if the DHCPv6 service is managed

Type

Bool.

Create

The default value is *undefined*.

discovery:advancedpollsetting : The advanced polling settings structure.

The structure provides information about the advanced polling settings.

arp_aggregate_limit

arp_aggregate_limit

The ARP aggregate limit.

Type

Unsigned integer.

Create

The default value is *undefined*.

arp_cache_refresh_interval

arp_cache_refresh_interval

The refresh interval in seconds for ARP cache.

Type

Unsigned integer.

Create

The default value is *undefined*.

dhcp_router_as_seed

dhcp_router_as_seed

Determines if DHCP router is used as seed for discovery.

Type

Bool.

Create

The default value is *undefined*.

disable_discovery_outside_ipam

`disable_discovery_outside_ipam`

Determines if discovery of networks that are not in IPAM is disabled.

Type

Bool.

Create

The default value is *undefined*.

enable_purge_expired_endhost_data

`enable_purge_expired_endhost_data`

Determines if purge of expired end host data is enabled.

Type

Bool.

Create

The default value is *undefined*.

ping_retries

`ping_retries`

The number of ping retries.

Type

Unsigned integer.

Create

The default value is *undefined*.

ping_sweep_interval

`ping_sweep_interval`

The hourly wait interval between ping sweeps for individual discovery ranges.

Type

Unsigned integer.

Create

The default value is *undefined*.

ping_timeout

`ping_timeout`

The ping timeout in seconds.

Type

Unsigned integer.

Create

The default value is *undefined*.

polling_authenticate_snmpv2c_or_later_only

`polling_authenticate_snmpv2c_or_later_only`

Determines if polling and authenticating using SNMPv2c or later is enabled.

Type

Bool.

Create

The default value is *undefined*.

purge_expired_device_data

`purge_expired_device_data`

The number of days a device remains in database after it is no longer found in network.

Type

Unsigned integer.

Create

The default value is *undefined*.

purge_expired_endhost_data

`purge_expired_endhost_data`

The number of days a end host remains in database after it is no longer found in network.

Type

Unsigned integer.

Create

The default value is *undefined*.

route_limit

`route_limit`

Route limit.

Type

Unsigned integer.

Create

The default value is *undefined*.

syslog_ipam_events

syslog_ipam_events

Determines if syslogging of IPAM sync events is enabled.

Type

Bool.

Create

The default value is *undefined*.

syslog_network_events

syslog_network_events

Determines if syslogging of Network sync events is enabled.

Type

Bool.

Create

The default value is *undefined*.

tcp_scan_technique

tcp_scan_technique

The TCP scan method.

Type

String.

Valid values are:

- CONNECT
- SYN

Create

The default value is *undefined*.

discovery:advancedsdnpollsettings : The advanced SDN polling settings structure.

The structure provides information about the advanced SDN polling settings.

disable_sdn_discovery_outside_ipam

disable_sdn_discovery_outside_ipam

Disable discovery of SDN subnets that are not in IPAM.

Type

Bool.

Create

The default value is *undefined*.

networks_mapping_policy

networks_mapping_policy

Policy of mapping SDN networks to network views. To obtain mapping table use the object discovery:sdnnetwork

Type

String.

Valid values are:

- AUTO
- DISABLED
- RULE_BASED

Create

The default value is *undefined*.

discovery:advisorsetting : Advisor Settings structure.

This structure provides settings for Advisor application

address

`address`

Host name or ip address of the Advisor server

Type

String.

Create

The default value is *undefined*.

auth_token

`auth_token`

Advisor AUTH token

Type

String.

Create

The default value is *undefined*.

auth_type

`auth_type`

Authentication type used for Advisor server

Type

String.

Valid values are:

- CREDS
- TOKEN

Create

The field is required on creation.

enable_proxy

`enable_proxy`

Use proxy server if true.

Type

Bool.

Create

The default value is *False*.

execution_hour

`execution_hour`

Application execution hour.

Type

Unsigned integer.

Create

The default value is *3*.

execution_interval

`execution_interval`

Application execution interval in seconds. Must be greater than or equal to 86400 seconds (1 day).

Type

Unsigned integer.

Create

The field is required on creation.

last_exec_details

`last_exec_details`

Details of the last execution attempt of Advisor. Describes the error or warning with a string

Type

String.

Notes

The last_exec_details cannot be updated.

last_exec_details cannot be written.

last_exec_status

`last_exec_status`

Result of the last execution attempt of Advisor

Type

String.

Valid values are:

- ERROR
- OK
- WARNING

Notes

The last_exec_status cannot be updated.

last_exec_status cannot be written.

last_exec_time

`last_exec_time`

Timestamp of the Advisor last execution attempt'

Type

Timestamp.

Notes

The last_exec_time cannot be updated.

last_exec_time cannot be written.

last_run_now_details

`last_run_now_details`

Details of the last Run Now attempt of Advisor. Describes the error or warning with a string

Type

String.

Notes

The last_run_now_details cannot be updated.

last_run_now_details cannot be written.

last_run_now_status

`last_run_now_status`

Result of the last Run Now attempt of Advisor

Type

String.

Valid values are:

- ERROR
- OK
- WARNING

Notes

The last_run_now_status cannot be updated.

last_run_now_status cannot be written.

last_run_now_time

`last_run_now_time`

Timestamp of the Advisor last Run Now attempt’

Type

Timestamp.

Notes

The last_run_now_time cannot be updated.

last_run_now_time cannot be written.

min_severity

`min_severity`

Advisor minimal severity

Type

String.

Create

The field is required on creation.

network_interface_type

`network_interface_type`

The type of the network interface on consolidator member.

Type

String.

Valid values are:

- LAN1
- LAN2
- MGMT
- VLAN

Create

The default value is *undefined*.

network_interface_virtual_ip

`network_interface_virtual_ip`

The interface for Advisor application on consolidator member.

Type

String.

Create

This field must be specified when network_interface_type is set to “VLAN”

password

`password`

Password for Advisor server

Type

String.

Create

The default value is *undefined*.

port

`port`

Port number the Advisor server listens on

Type

Unsigned integer.

Create

The default value is *undefined*.

proxy_address

`proxy_address`

Host name or ip address of the proxy server.

Type

String.

Create

The default value is *undefined*.

proxy_password

`proxy_password`

Proxy password.

Type

String.

Create

The default value is *undefined*.

proxy_port

`proxy_port`

Port number the proxy listens on.

Type

Unsigned integer.

Create

The default value is *undefined*.

proxy_username

`proxy_username`

Proxy username.

Type

String.

Create

The default value is *undefined*.

use_proxy_username_passwd

`use_proxy_username_passwd`

Is proxy authorization required?

Type

Bool.

Create

The default value is *False*.

username

`username`

Username for Advisor server

Type

String.

Create

The default value is *undefined*.

discovery:autoconversionsetting : This struct contains settings for automatic conversion

of discovered data to managed objects.

comment

`comment`

The comment.

Type

String.

Create

The default value is *undefined*.

condition

`condition`

The string that contains condition of use the auto conversion settings.

Type

String.

Create

The default value is *undefined*.

format

format

Template string used to generate host names.

Type

String.

Create

The field is required on creation.

network_view

network_view

The network view name which contains discovered data for convert.

Type

String.

Create

The field is required on creation.

type

type

The object type used to define the converted object.

Type

String.

Valid values are:

- A_AND_PTR_RECORD
- FIXED_ADDRESS
- HOST_RECORD

Create

The field is required on creation.

discovery:basicpollsettings : Basic Poll Settings.

This struct contains information about the discovery basic poll settings.

auto_arp_refresh_before_switch_port_polling

auto_arp_refresh_before_switch_port_polling

Determines whether auto ARP refresh before switch port polling is enabled or not.

Type

Bool.

Create

The field is required on creation.

cli_collection

cli_collection

Determines whether CLI collection is enabled or not.

Type

Bool.

Create

The field is required on creation.

complete_ping_sweep

complete_ping_sweep

Determines whether complete ping sweep is enabled or not.

Type

Bool.

Create

The field is required on creation.

credential_group

credential_group

Credential group.

Type

String.

Create

The default value is *default*.

device_profile

device_profile

Determines whether device profile is enabled or not.

Type

Bool.

Create

The field is required on creation.

netbios_scanning

netbios_scanning

Determines whether netbios scanning is enabled or not.

Type

Bool.

Create

The field is required on creation.

polling_frequency_modifier

`polling_frequency_modifier`

Polling Frequency Modifier.

Type

String.

Create

The default value is *1*.

port_scanning

`port_scanning`

Determines whether port scanning is enabled or not.

Type

Bool.

Create

The field is required on creation.

smart_subnet_ping_sweep

`smart_subnet_ping_sweep`

Determines whether smart subnet ping sweep is enabled or not.

Type

Bool.

Create

The field is required on creation.

snmp_collection

`snmp_collection`

Determines whether SNMP collection is enabled or not.

Type

Bool.

Create

The field is required on creation.

switch_port_data_collection_polling

`switch_port_data_collection_polling`

A switch port data collection polling mode.

Type

String.

Valid values are:

- DISABLED

- PERIODIC
- SCHEDULED

Create

The field is required on creation.

switch_port_data_collection_polling_interval

`switch_port_data_collection_polling_interval`

Indicates the interval for switch port data collection polling.

Type

Unsigned integer.

Create

The default value is *empty*.

switch_port_data_collection_polling_schedule

`switch_port_data_collection_polling_schedule`

A Schedule Setting struct that determines switch port data collection polling schedule.

Type

A/An Schedule Setting struct.

Create

The default value is *undefined*.

use_arp_data_for_discovery

`use_arp_data_for_discovery`

Use ARP data to discover IP addresses.

Type

Bool.

Create

The default value is *False*.

use_global_polling_frequency_modifier

`use_global_polling_frequency_modifier`

Use Global Polling Frequency Modifier.

Type

Bool.

Create

The default value is *True*.

discovery:basicsdnpollsettings : Basic SDN Poll Settings.

This struct contains information about the discovery basic SDN poll settings.

default_network_view

`default_network_view`

Default network view to map collected SDN networks.

Type

String.

Create

The default value is *undefined*.

end_host_polling

`end_host_polling`

SDN end host polling mode.

Type

String.

Valid values are:

- DISABLED
- PERIODIC
- SCHEDULED

Create

The default value is *DISABLED*.

end_host_polling_interval

`end_host_polling_interval`

Valid SDN end host polling interval in seconds. Must be between 1800 and 86400 seconds.

Type

Unsigned integer.

Create

end_host_polling_interval should be provided when SDN end host polling mode is PERIODIC

end_host_polling_schedule

`end_host_polling_schedule`

A Schedule Setting struct that determines SDN end host polling schedule.

Type

A/An Schedule Setting struct.

Create

Schedule Setting should be provided when SDN end host polling mode is SCHEDULED

sdn_discovery

`sdn_discovery`

Enable/disable SDN discovery.

Type

Bool.

Create

The default value is *True*.

discovery:clicredential : CLI credential.

CLI credentials for devices discovered by Network Automation.

comment

`comment`

The comment for the credential.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

credential_group

`credential_group`

Group for the CLI credential.

Type

String.

Create

The default value is *default*.

credential_type

`credential_type`

The type of the credential.

Type

String.

Valid values are:

- ENABLE_SSH
- ENABLE_TELNET
- SSH
- TELNET

Create

The field is required on creation.

id

`id`

The Credentials ID.

Type

Unsigned integer.

Notes

The id cannot be updated.

id cannot be written.

password

`password`

The CLI password.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when user is undefined or credential_type set to ENABLE_SSH or ENABLE_TELNET.

Notes

password is not readable.

user

`user`

The CLI user name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required only when password is undefined.

discovery:conversion_attributes : Discovery Data Conversion attributes.

Specify these attributes in the Discovery Data Conversion function call to override default values of the target objects.

comment

`comment`

Set the comment string that will be defined for each target object.

You can use this attribute for all conversion types.

Type

String.

Create

The default value is *undefined*.

Notes

The comment cannot be updated.

comment is not readable.

configure_for_dhcp

`configure_for_dhcp`

Set this to true to enable the DHCP configuration for the host address.

You can specify this attribute only for the host record conversion type.

Type

Bool.

Create

The default value is *undefined*.

Notes

The configure_for_dhcp cannot be updated.

configure_for_dhcp is not readable.

configure_for_dns

`configure_for_dns`

Set this to true to enable the DNS configuration for the host record.

You can specify this attribute only for the host record conversion type.

Type

Bool.

Create

The default value is *undefined*.

Notes

The configure_for_dns cannot be updated.

configure_for_dns is not readable.

disable

`disable`

Set this to true if the target object should be disabled, or to false if it should be enabled.

You can specify this attribute for all conversion types.

Type

Bool.

Create

The default value is *False*.

Notes

The disable cannot be updated.

disable is not readable.

zone

zone

Set the name of the zone used to insert the target resource records. Example: “zone.com”.

When this attribute is omitted during the conversion to resource record objects, the appliance searches for a zone that can accommodate the target resource records, starting from the bottom of the domain name hierarchy.

The conversion fails if the appliance cannot find the zone that can fit the target resource records or if there are multiple zones that have the same name within different DNS views.

This attribute can be specified for conversion only for the following resource record conversion types: A, AAAA, PTR, and Host.

Type

String.

Create

The default value is *undefined*.

Notes

The zone cannot be updated.

zone is not readable.

discovery:device:portstatistics : Port statistics.

This struct contains information about port statistics.

admin_down_oper_down_count

admin_down_oper_down_count

The total number of interfaces which have administrative state ‘DOWN’ and operating state ‘DOWN’.

Type

Unsigned integer.

Notes

The admin_down_oper_down_count cannot be updated.

admin_down_oper_down_count cannot be written.

admin_up_oper_down_count

admin_up_oper_down_count

The total number of interfaces which have administrative state ‘UP’ and oper state ‘DOWN’.

Type

Unsigned integer.

Notes

The admin_up_oper_down_count cannot be updated.

admin_up_oper_down_count cannot be written.

admin_up_oper_up_count

admin_up_oper_up_count

The total number of interfaces which have both administrative and operating states as ‘UP’.

Type

Unsigned integer.

Notes

The admin_up_oper_up_count cannot be updated.

admin_up_oper_up_count cannot be written.

interfaces_count

interfaces_count

The total number of available interfaces on this device.

Type

Unsigned integer.

Notes

The interfaces_count cannot be updated.

interfaces_count cannot be written.

discovery:devicedatacollectionstatus : Device Data Collection Status struct.

These parameters are related to the result of the Get Device Support Info call.

data_source

data_source

The source from which device support information is collected.

Type

String.

Notes

The data_source cannot be updated.

data_source cannot be written.

end_time

end_time

Time when the most recent collection from the data sources was completed.

Type

Timestamp.

Notes

The end_time cannot be updated.

end_time cannot be written.

discovery:devicehint : This struct contains Device Hint.

Device Hint is a pattern or regular expression that is defining which kind on device type should be forced to

comment

`comment`

The comment.

Type

String.

Create

The default value is *undefined*.

criteria

`criteria`

Pattern or extended POSIX regular expression matching the Device Hint. The regular expression string should contain the leading caret anchor ^ and the trailing dollar anchor $ symbols.

Type

String.

Create

The field is required on creation.

device_type

`device_type`

The type of Device

Type

String.

Create

The field is required on creation.

discovery:devicesupportinfo : Device Support Info struct.

These parameters are related to the result of the Get Device Support Info call.

available

`available`

Shows whether the function is available for the device or not.

Type

String.

Notes

The available cannot be updated.

available cannot be written.

function

`function`

The function of the device.

Type

String.

Notes

The function cannot be updated.

function cannot be written.

supported

`supported`

Shows whether the function is supported by the device or not.

Type

String.

Notes

The supported cannot be updated.

supported cannot be written.

value

`value`

The value is an indicator of Discovery member knowing that a given device supports the given type of data collection (SNMP, for example).

Type

String.

Notes

The value cannot be updated.

value cannot be written.

discovery:discoverydataconversionresult : Discovery Data Conversion result.

These parameters are related to the result of the Discovery Data Conversion call.

address

address

The original IPv4 or IPv6 objects referring to the unmanaged Discovery Data.

Type

String.

This field supports nested return fields as described here.

Notes

The address cannot be updated.

address cannot be written.

message

message

The status message. This can contain either the reason for the object conversion failure or a success string.

Type

String.

Notes

The message cannot be updated.

message cannot be written.

object

object

The converted object. This field is empty if the conversion fails.

Type

String.

This field supports nested return fields as described here.

Notes

The object cannot be updated.

object cannot be written.

status

status

The status of the unmanaged Discovery Data conversion.

Type

String.

Valid values are:

- FAILURE
- SUCCESS

Notes

The status cannot be updated.

status cannot be written.

discovery:ifaddrinfo : IfAddr information.

IfAddr information on devices discovered by Network Automation.

address

`address`

The IPv4 Address or IPv6 Address of the device.

Type

String.

Notes

The address cannot be updated.

address cannot be written.

address_object

`address_object`

The ref to IPv4/Ipv6 Address.

Type

String.

This field supports nested return fields as described here.

Notes

The address_object cannot be updated.

address_object cannot be written.

network

`network`

The network to which this device belongs, in IPv4 Address/CIDR format.

Type

String.

Notes

The network cannot be updated.

network cannot be written.

discovery:jobprocessdetails : Discovery Job Process Details.

This struct contains details about a discovery job process.

end_line

`end_line`

The end line of the returned stream.

Type

Unsigned integer.

Notes

The end_line cannot be updated.

end_line cannot be written.

status

`status`

The indicator of session status.

Type

String.

Valid values are:

- COMPLETED
- FAILED
- INPROGRESS

Notes

The status cannot be updated.

status cannot be written.

stream

`stream`

The job process log stream.

Type

String.

Values with leading or trailing white space are not valid for this field.

Notes

The stream cannot be updated.

stream cannot be written.

discovery:networkdeprovisioninfo : Network Deprovision Info.

This struct contains information about interface and network for de-provisioning.

interface

`interface`

A reference to a WAPI Interface object of a given device on which the network is to be de-provisioned.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Notes

The interface cannot be updated.

interface is not readable.

network

`network`

The network address, in IPv4 Address/CIDR or IPv6 Address/CIDR format.

Type

String.

The field also supports automatic selection of the next available network with selected CIDR in the specified network or network container. You can specify the network or network container in the following ways:

Using a network or network container WAPI reference:

- func:nextavailablenetwork:<reference>,<CIDR>

Using a network lookup (if the view is not specified, the default view will be used):

- func:nextavailablenetwork:<network>[,<network view>],<CIDR>

Scheduled and approval operations are not supported when using the automatic network selection.

If you specify a network view for automatic network selection, you should also add a network_view field in the object to be inserted with the same network view because the network view for automatic network selection is not used for the actual object insertion.

If the grid has multiple network views, it is recommended to specify the network view information in the input data when calling the next_available_network function and also specify the same network view for the actual object insertion.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablenetwork:network/ZG54dfgsrDFEFfsfsLzA:10.0.0.0/8/default,16
- func:nextavailablenetwork:10.0.0.0/8,16
- func:nextavailablenetwork:10.0.0.0/8,external,16

Create

The field is required on creation.

Notes

The network cannot be updated.

network is not readable.

network_view

`network_view`

The name of the network view in which this network resides.

Type

String.

Create

The field is required on creation.

Notes

The network_view cannot be updated.

network_view is not readable.

discovery:networkinfo : Network info.

This struct contains information about network.

network

`network`

The ref to the network to which the management IP address belongs.

Type

String.

This field supports nested return fields as described here.

Notes

The network cannot be updated.

network cannot be written.

network_str

`network_str`

The Network address in format address/cidr.

Type

String.

Notes

The network_str cannot be updated.

network_str cannot be written.

discovery:port : The discovery port structure.

The structure provides information about discovery port.

comment

`comment`

The comment for this discovery port.

Type

String.

Create

The default value is *undefined*.

port

port

The discovery port number.

Type

Unsigned integer.

Create

The field is required on creation.

type

type

The discovery port type.

Type

String.

Valid values are:

- TCP
- UDP

Create

The field is required on creation.

discovery:port:config:adminstatus : Port Config Admin Status.

This struct contains information about admin status.

details

details

The associated port control task details.

Type

A/An Port Control Task Details struct.

Notes

The details cannot be updated.

details cannot be written.

status

status

The configured admin status value.

Type

String.

Valid values are:

- DOWN
- UP

Notes

The status cannot be updated.

status cannot be written.

discovery:port:config:description : Port Config Description.

This struct contains information about config description.

description

`description`

The configured description value.

Type

String.

Notes

The description cannot be updated.

description cannot be written.

details

`details`

The associated port control task details.

Type

A/An Port Control Task Details struct.

Notes

The details cannot be updated.

details cannot be written.

discovery:port:config:vlaninfo : Port Config VLAN info.

This struct contains information about VLAN info.

data_vlan_info

`data_vlan_info`

The configured data VLAN ID and the name of the interface.

Type

A/An VLAN information struct.

Notes

The data_vlan_info cannot be updated.

data_vlan_info cannot be written.

details

details

The associated port control task details.

Type

A/An Port Control Task Details struct.

Notes

The details cannot be updated.

details cannot be written.

voice_vlan_info

voice_vlan_info

The configured voice VLAN id and name of interface.

Type

A/An VLAN information struct.

Notes

The voice_vlan_info cannot be updated.

voice_vlan_info cannot be written.

discovery:port:control:info : Port Control info.

This struct contains information about Port Control.

admin_status

admin_status

The administrative state of the interface.

Type

String.

Valid values are:

- DOWN
- UP

Create

The default value is *undefined*.

Notes

The admin_status cannot be updated.

admin_status is not readable.

data_vlan_info

data_vlan_info

The Configured data VLAN id and name of interface.

Type

A/An VLAN information struct.

Create

The default value is *undefined*.

Notes

The data_vlan_info cannot be updated.

data_vlan_info is not readable.

description

`description`

The description of the interface.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Notes

The description cannot be updated.

description is not readable.

device

`device`

A reference to a WAPI Device object on which port is configured.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Notes

The device cannot be updated.

device is not readable.

interface

`interface`

A reference to a WAPI Interface object of given device.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

Notes

The interface cannot be updated.

interface is not readable.

parent

parent

A reference to the RESTful API Interface, Member, Host, IPv4 Fixed Address, or IPv6 Fixed Address parent object on which the port is configured.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Notes

The parent cannot be updated.

parent is not readable.

voice_vlan_info

voice_vlan_info

The configured voice VLAN ID and the name of the interface.

Type

A/An VLAN information struct.

Create

The default value is *undefined*.

Notes

The voice_vlan_info cannot be updated.

voice_vlan_info is not readable.

discovery:port:control:taskdetails : Port Control Task Details.

This struct contains information about task details.

id

id

The ID of the associated port control task.

Type

Unsigned integer.

Notes

The id cannot be updated.

id cannot be written.

is_synchronized

is_synchronized

True if this port control task is completed and matched with current discovered value.

Type

Bool.

Notes

The is_synchronized cannot be updated.

is_synchronized cannot be written.

status

status

The task status of the associated port control task.

Type

String.

Valid values are:

- COMPLETED
- NONE
- PENDING
- RUNNING

Notes

The status cannot be updated.

status cannot be written.

discovery:scaninterface : The discovery scan interface structure.

The structure provides information about the discovery scan interface.

network_view

network_view

The name of the network view associated with the network discovery probing member.

Type

String.

Create

The field is required on creation.

scan_virtual_ip

scan_virtual_ip

The virtual ip for discovery scan interface on network discovery probing member.

Type

String.

Create

You must specify scan_virtual_ip when type is set to “VLAN”

type

type

The probing interface associated with the network discovery probing member.

Type

String.

Valid values are:

- LAN1
- LAN2
- MGMT
- VLAN

Create

The field is required on creation.

discovery:sdnconfig : The SDN/SDWAN configuration structure.

The structure provides information about SDN controller configuration.

addresses

addresses

SDN controller IP addresses or FQDNs.

Type

String array.

Create

The default value is *undefined*.

api_key

api_key

SDN controller API key.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Notes

api_key is not readable.

comment

comment

Additional information about the SDN configuration.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

handle

`handle`

Unique configuration handle.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

Configuration handle must be specified when creating new sdn_config structure.

network_interface_type

`network_interface_type`

The type of the network interface on discovery member used for SDN controller discovery

Type

String.

Valid values are:

- LAN1
- LAN2
- MGMT
- VLAN

Create

The default value is *undefined*.

network_interface_virtual_ip

`network_interface_virtual_ip`

Virtual IP of VLAN network interface on discovery member

Type

String.

Create

This field must be specified when network_interface_type is set to “VLAN”

network_view

`network_view`

The network view associated with SDN controller.

Type

String.

Create

The default value is *undefined*.

on_prem

`on_prem`

True if controller is on-premises, otherwise we consider it is in cloud.

Type

Bool.

Create

The default value is *undefined*.

password

`password`

SDN controller login password.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

Notes

password is not readable.

protocol

`protocol`

The connection protocol. Valid values are ‘HTTP’ and ‘HTTPS’.

Type

String.

Valid values are:

- HTTP
- HTTPS

Create

The default value is *undefined*.

sdn_type

`sdn_type`

Type of SDN controller.

Type

String.

Valid values are:

- CISCO_APIC
- MERAKI
- MIST
- SILVERPEAK
- VIPTELA

Create

SDN type must be specified when creating new sdn_config structure.

use_global_proxy

`use_global_proxy`

Use global proxy settings to access SDN controller.

Type

Bool.

Create

The default value is *False*.

username

`username`

SDN controller login name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

uuid

`uuid`

Unique key of SDN controller structure. Must be specified for existing sdn_config structures, otherwise they will be removed. If not specified, new structure will be created.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

discovery:seedrouter : The seed router structure.

The structure provides information about the seed router.

address

`address`

Address of the seed router.

Type

String.

Create

The field is required on creation.

comment

`comment`

Description of the seed router.

Type

String.

Create

The default value is *empty*.

network_view

`network_view`

The network view name.

Type

String.

Create

The default value is *empty*.

discovery:snmp3credential : SNMP v3 Credential.

This struct contains SNMPv3 credential data.

authentication_password

`authentication_password`

Authentication password for the SNMPv3 user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Notes

authentication_password is not readable.

authentication_protocol

`authentication_protocol`

Authentication protocol for the SNMPv3 user.

Type

String.

Valid values are:

- MD5
- NONE
- SHA
- SHA-224
- SHA-256
- SHA-384
- SHA-512

Create

The field is required on creation.

comment

`comment`

Comments for the SNMPv3 user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

credential_group

`credential_group`

Group for the SNMPv3 credential.

Type

String.

Create

The default value is *default*.

privacy_password

`privacy_password`

Privacy password for the SNMPv3 user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Notes

privacy_password is not readable.

privacy_protocol

privacy_protocol

Privacy protocol for the SNMPv3 user.

Type

String.

Valid values are:

- 3DES
- AES
- AES-192
- AES-192C
- AES-256
- AES-256C
- DES
- NONE

Create

The field is required on creation.

user

user

The SNMPv3 user name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

discovery:snmpcredential : SNMP Credential.

This struct contains SNMPv1 and SNMPv2 credential data.

comment

comment

Comments for the SNMPv1 and SNMPv2 users.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

community_string

community_string

The public community string.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

credential_group

`credential_group`

Group for the SNMPv1 and SNMPv2 credential.

Type

String.

Create

The default value is *default*.

discovery:statusinfo : Status information.

Status information on devices discovered by Network Automation.

message

`message`

The detailed message.

Type

String.

Notes

The message cannot be updated.

message cannot be written.

status

`status`

The overall status of the device.

Type

String.

Valid values are:

- ERROR
- OK
- RUNNING

Notes

The status cannot be updated.

status cannot be written.

timestamp

`timestamp`

The timestamp when the status was generated.

Type

Timestamp.

Notes

The timestamp cannot be updated.

timestamp cannot be written.

discovery:vlaninfo : VLAN information.

VLAN information on devices discovered by Network Automation.

id

`id`

The Vlan ID.

Type

Unsigned integer.

Create

The default value is *undefined*.

name

`name`

The Vlan name.

Type

String.

Create

The default value is *undefined*.

discovery:vrfmappingrule : This struct contains VRF Mapping Rule.

VRF mapping rule is a regular expression that is defining what VRFs will be used to populate the specified Network View.

comment

`comment`

The comment.

Type

String.

Create

The default value is *undefined*.

criteria

`criteria`

Extended POSIX regular expression matching the VRF name. The regular expression string should contain the leading caret anchor ^ and the trailing dollar anchor $ symbols.

Type

String.

Create

The field is required on creation.

network_view

`network_view`

The name of the network view associated with the VRF mapping rule.

Type

String.

Create

The field is required on creation.

discoverydata : Discovered data.

This struct contains data gathered during a network discovery.

ap_ip_address

`ap_ip_address`

Discovered IP address of Wireless Access Point.

Type

String.

Notes

The ap_ip_address cannot be updated.

ap_ip_address cannot be written.

ap_name

`ap_name`

Discovered name of Wireless Access Point.

Type

String.

Notes

The ap_name cannot be updated.

ap_name cannot be written.

ap_ssid

`ap_ssid`

Service set identifier (SSID) associated with Wireless Access Point.

Type

String.

Notes

The ap_ssid cannot be updated.

ap_ssid cannot be written.

bgp_as

`bgp_as`

The BGP autonomous system number.

Type

Unsigned integer.

Notes

The bgp_as cannot be updated.

bgp_as cannot be written.

bridge_domain

`bridge_domain`

Discovered bridge domain.

Type

String.

Notes

The bridge_domain cannot be updated.

bridge_domain cannot be written.

cisco_ise_endpoint_profile

`cisco_ise_endpoint_profile`

The Endpoint Profile created in Cisco ISE.

Type

String.

Notes

The cisco_ise_endpoint_profile cannot be updated.

cisco_ise_endpoint_profile cannot be written.

cisco_ise_security_group

`cisco_ise_security_group`

The Cisco ISE security group name.

Type

String.

Notes

The cisco_ise_security_group cannot be updated.

cisco_ise_security_group cannot be written.

cisco_ise_session_state

`cisco_ise_session_state`

The Cisco ISE connection session state.

Type

String.

Valid values are:

- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

Notes

The cisco_ise_session_state cannot be updated.

cisco_ise_session_state cannot be written.

cisco_ise_ssid

`cisco_ise_ssid`

The Cisco ISE SSID.

Type

String.

Notes

The cisco_ise_ssid cannot be updated.

cisco_ise_ssid cannot be written.

cmp_type

`cmp_type`

If the IP is coming from a Cloud environment, the Cloud Management Platform type.

Type

String.

Notes

The cmp_type cannot be updated.

cmp_type cannot be written.

device_contact

`device_contact`

Contact information from device on which the IP address was discovered.

Type

String.

Notes

The device_contact cannot be updated.

device_contact cannot be written.

device_location

`device_location`

Location of device on which the IP address was discovered.

Type

String.

Notes

The device_location cannot be updated.

device_location cannot be written.

device_model

`device_model`

The model name of the end device in the vendor terminology.

Type

String.

Notes

The device_model cannot be updated.

device_model cannot be written.

device_port_name

`device_port_name`

The system name of the interface associated with the discovered IP address.

Type

String.

Notes

The device_port_name cannot be updated.

device_port_name cannot be written.

device_port_type

`device_port_type`

The hardware type of the interface associated with the discovered IP address.

Type

String.

Notes

The device_port_type cannot be updated.

device_port_type cannot be written.

device_type

device_type

The type of end host in vendor terminology.

Type

String.

Notes

The device_type cannot be updated.

device_type cannot be written.

device_vendor

device_vendor

The vendor name of the end host.

Type

String.

Notes

The device_vendor cannot be updated.

device_vendor cannot be written.

discovered_name

discovered_name

The name of the network device associated with the discovered IP address.

Type

String.

Notes

The discovered_name cannot be updated.

discovered_name cannot be written.

discoverer

discoverer

Specifies whether the IP address was discovered by a NetMRI or NIOS discovery process.

Type

String.

Notes

The discoverer cannot be updated.

discoverer cannot be written.

duid

duid

For IPv6 address only. The DHCP unique identifier of the discovered host. This is an optional field, and data might not be included.

Type

String.

Notes

The duid cannot be updated.

duid cannot be written.

endpoint_groups

endpoint_groups

A comma-separated list of the discovered endpoint groups.

Type

String.

Notes

The endpoint_groups cannot be updated.

endpoint_groups cannot be written.

first_discovered

first_discovered

The date and time the IP address was first discovered in Epoch seconds format.

Type

Timestamp.

Notes

The first_discovered cannot be updated.

first_discovered cannot be written.

iprg_no

iprg_no

The port redundant group number.

Type

Unsigned integer.

Notes

The iprg_no cannot be updated.

iprg_no cannot be written.

iprg_state

iprg_state

The status for the IP address within port redundant group.

Type

String.

Valid values are:

- ACTIVE
- NEGOTIATION
- STANDBY
- VIP

Notes

The iprg_state cannot be updated.

iprg_state cannot be written.

iprg_type

`iprg_type`

The port redundant group type.

Type

String.

Valid values are:

- HSRP
- VRRP

Notes

The iprg_type cannot be updated.

iprg_type cannot be written.

last_discovered

`last_discovered`

The date and time the IP address was last discovered in Epoch seconds format.

Type

Timestamp.

Notes

The last_discovered cannot be updated.

last_discovered cannot be written.

mac_address

`mac_address`

The discovered MAC address for the host. This is the unique identifier of a network device. The discovery acquires the MAC address for hosts that are located on the same network as the Grid member that is running the discovery. This can also be the MAC address of a virtual entity on a specified vSphere server.

Type

String.

Notes

The mac_address cannot be updated.

mac_address cannot be written.

mgmt_ip_address

mgmt_ip_address

The management IP address of the end host that has more than one IP.

Type

String.

Notes

The mgmt_ip_address cannot be updated.

mgmt_ip_address cannot be written.

netbios_name

netbios_name

The name returned in the NetBIOS reply or the name you manually register for the discovered host.

Type

String.

Notes

The netbios_name cannot be updated.

netbios_name cannot be written.

network_component_contact

network_component_contact

Contact information from the network component on which the IP address was discovered.

Type

String.

Notes

The network_component_contact cannot be updated.

network_component_contact cannot be written.

network_component_description

network_component_description

A textual description of the switch that is connected to the end device.

Type

String.

Notes

The network_component_description cannot be updated.

network_component_description cannot be written.

network_component_ip

network_component_ip

The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

Type

String.

Notes

The network_component_ip cannot be updated.

network_component_ip cannot be written.

network_component_location

`network_component_location`

Location of the network component on which the IP address was discovered.

Type

String.

Notes

The network_component_location cannot be updated.

network_component_location cannot be written.

network_component_model

`network_component_model`

Model name of the switch port connected to the end host in vendor terminology.

Type

String.

Notes

The network_component_model cannot be updated.

network_component_model cannot be written.

network_component_name

`network_component_name`

If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed in this field.

Type

String.

Notes

The network_component_name cannot be updated.

network_component_name cannot be written.

network_component_port_description

`network_component_port_description`

A textual description of the switch port that is connected to the end device.

Type

String.

Notes

The network_component_port_description cannot be updated.

network_component_port_description cannot be written.

network_component_port_name

`network_component_port_name`

The name of the switch port connected to the end device.

Type

String.

Notes

The network_component_port_name cannot be updated.

network_component_port_name cannot be written.

network_component_port_number

`network_component_port_number`

The number of the switch port connected to the end device.

Type

String.

Notes

The network_component_port_number cannot be updated.

network_component_port_number cannot be written.

network_component_type

`network_component_type`

Identifies the switch that is connected to the end device.

Type

String.

Notes

The network_component_type cannot be updated.

network_component_type cannot be written.

network_component_vendor

`network_component_vendor`

The vendor name of the switch port connected to the end host.

Type

String.

Notes

The network_component_vendor cannot be updated.

network_component_vendor cannot be written.

open_ports

open_ports

The list of opened ports on the IP address, represented as: “TCP: 21,22,23 UDP: 137,139”. Limited to max total 1000 ports.

Type

String.

Notes

The open_ports cannot be updated.

open_ports cannot be written.

os

os

The operating system of the detected host or virtual entity. The OS can be one of the following:

- Microsoft for all discovered hosts that have a non-null value in the MAC addresses using the NetBIOS discovery method.
- A value that a TCP discovery returns.
- The OS of a virtual entity on a vSphere server.

Type

String.

Notes

The os cannot be updated.

os cannot be written.

port_duplex

port_duplex

The negotiated or operational duplex setting of the switch port connected to the end device.

Type

String.

Notes

The port_duplex cannot be updated.

port_duplex cannot be written.

port_link_status

port_link_status

The link status of the switch port connected to the end device. Indicates whether it is connected.

Type

String.

Notes

The port_link_status cannot be updated.

port_link_status cannot be written.

port_speed

port_speed

The interface speed, in Mbps, of the switch port.

Type

String.

Notes

The port_speed cannot be updated.

port_speed cannot be written.

port_status

port_status

The operational status of the switch port. Indicates whether the port is up or down.

Type

String.

Notes

The port_status cannot be updated.

port_status cannot be written.

port_type

port_type

The type of switch port.

Type

String.

Notes

The port_type cannot be updated.

port_type cannot be written.

port_vlan_description

port_vlan_description

The description of the VLAN of the switch port that is connected to the end device.

Type

String.

Notes

The port_vlan_description cannot be updated.

port_vlan_description cannot be written.

port_vlan_name

port_vlan_name

The name of the VLAN of the switch port.

Type

String.

Notes

The port_vlan_name cannot be updated.

port_vlan_name cannot be written.

port_vlan_number

port_vlan_number

The ID of the VLAN of the switch port.

Type

String.

Notes

The port_vlan_number cannot be updated.

port_vlan_number cannot be written.

task_name

task_name

The name of the discovery task.

Type

String.

Notes

The task_name cannot be updated.

task_name cannot be written.

tenant

tenant

Discovered tenant.

Type

String.

Notes

The tenant cannot be updated.

tenant cannot be written.

v_adapter

v_adapter

The name of the physical network adapter through which the virtual entity is connected to the appliance.

Type

String.

Notes

The v_adapter cannot be updated.

v_adapter cannot be written.

v_cluster

`v_cluster`

The name of the VMware cluster to which the virtual entity belongs.

Type

String.

Notes

The v_cluster cannot be updated.

v_cluster cannot be written.

v_datacenter

`v_datacenter`

The name of the vSphere datacenter or container to which the virtual entity belongs.

Type

String.

Notes

The v_datacenter cannot be updated.

v_datacenter cannot be written.

v_entity_name

`v_entity_name`

The name of the virtual entity.

Type

String.

Notes

The v_entity_name cannot be updated.

v_entity_name cannot be written.

v_entity_type

`v_entity_type`

The virtual entity type. This can be blank or one of the following: Virtual Machine, Virtual Host, or Virtual Center. Virtual Center represents a VMware vCenter server.

Type

String.

Notes

The v_entity_type cannot be updated.

v_entity_type cannot be written.

v_host

`v_host`

The name of the VMware server on which the virtual entity was discovered.

Type

String.

Notes

The v_host cannot be updated.

v_host cannot be written.

v_switch

`v_switch`

The name of the switch to which the virtual entity is connected.

Type

String.

Notes

The v_switch cannot be updated.

v_switch cannot be written.

vlan_port_group

`vlan_port_group`

Port group which the virtual machine belongs to.

Type

String.

Notes

The vlan_port_group cannot be updated.

vlan_port_group cannot be written.

vmhost_ip_address

`vmhost_ip_address`

IP address of the physical node on which the virtual machine is hosted.

Type

String.

Notes

The vmhost_ip_address cannot be updated.

vmhost_ip_address cannot be written.

vmhost_mac_address

vmhost_mac_address

MAC address of the physical node on which the virtual machine is hosted.

Type

String.

Notes

The vmhost_mac_address cannot be updated.

vmhost_mac_address cannot be written.

vmhost_name

vmhost_name

Name of the physical node on which the virtual machine is hosted.

Type

String.

Notes

The vmhost_name cannot be updated.

vmhost_name cannot be written.

vmhost_nic_names

vmhost_nic_names

List of all physical port names used by the virtual switch on the physical node on which the virtual machine is hosted. Represented as: “eth1,eth2,eth3”.

Type

String.

Notes

The vmhost_nic_names cannot be updated.

vmhost_nic_names cannot be written.

vmhost_subnet_cidr

vmhost_subnet_cidr

CIDR subnet of the physical node on which the virtual machine is hosted.

Type

Unsigned integer.

Notes

The vmhost_subnet_cidr cannot be updated.

vmhost_subnet_cidr cannot be written.

vmi_id

vmi_id

ID of the virtual machine.

Type

String.

Notes

The vmi_id cannot be updated.

vmi_id cannot be written.

vmi_ip_type

vmi_ip_type

Discovered IP address type.

Type

String.

Notes

The vmi_ip_type cannot be updated.

vmi_ip_type cannot be written.

vmi_is_public_address

vmi_is_public_address

Indicates whether the IP address is a public address.

Type

Bool.

Notes

The vmi_is_public_address cannot be updated.

vmi_is_public_address cannot be written.

vmi_name

vmi_name

Name of the virtual machine.

Type

String.

Notes

The vmi_name cannot be updated.

vmi_name cannot be written.

vmi_private_address

vmi_private_address

Private IP address of the virtual machine.

Type

String.

Notes

The vmi_private_address cannot be updated.

vmi_private_address cannot be written.

vmi_tenant_id

vmi_tenant_id

ID of the tenant which virtual machine belongs to.

Type

String.

Notes

The vmi_tenant_id cannot be updated.

vmi_tenant_id cannot be written.

vport_conf_mode

vport_conf_mode

Configured mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Notes

The vport_conf_mode cannot be updated.

vport_conf_mode cannot be written.

vport_conf_speed

vport_conf_speed

Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

String.

Notes

The vport_conf_speed cannot be updated.

vport_conf_speed cannot be written.

vport_link_status

vport_link_status

Link status of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Notes

The vport_link_status cannot be updated.

vport_link_status cannot be written.

vport_mac_address

vport_mac_address

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Notes

The vport_mac_address cannot be updated.

vport_mac_address cannot be written.

vport_mode

vport_mode

Actual mode of the network adapter on the virtual switch where the virtual machine connected to.

Type

String.

Valid values are:

- Full-duplex
- Half-duplex
- Unknown

Notes

The vport_mode cannot be updated.

vport_mode cannot be written.

vport_name

vport_name

Name of the network adapter on the virtual switch connected with the virtual machine.

Type

String.

Notes

The vport_name cannot be updated.

vport_name cannot be written.

vport_speed

`vport_speed`

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.

Type

String.

Notes

The vport_speed cannot be updated.

vport_speed cannot be written.

vrf_description

`vrf_description`

Description of the VRF.

Type

String.

Notes

The vrf_description cannot be updated.

vrf_description cannot be written.

vrf_name

`vrf_name`

The name of the VRF.

Type

String.

Notes

The vrf_name cannot be updated.

vrf_name cannot be written.

vrf_rd

`vrf_rd`

Route distinguisher of the VRF.

Type

String.

Notes

The vrf_rd cannot be updated.

vrf_rd cannot be written.

vswitch_available_ports_count

vswitch_available_ports_count

Numer of available ports reported by the virtual switch on which the virtual machine/vport connected to.

Type

Unsigned integer.

Notes

The vswitch_available_ports_count cannot be updated.

vswitch_available_ports_count cannot be written.

vswitch_id

vswitch_id

ID of the virtual switch.

Type

String.

Notes

The vswitch_id cannot be updated.

vswitch_id cannot be written.

vswitch_ipv6_enabled

vswitch_ipv6_enabled

Indicates the virtual switch has IPV6 enabled.

Type

Bool.

Notes

The vswitch_ipv6_enabled cannot be updated.

vswitch_ipv6_enabled cannot be written.

vswitch_name

vswitch_name

Name of the virtual switch.

Type

String.

Notes

The vswitch_name cannot be updated.

vswitch_name cannot be written.

vswitch_segment_id

vswitch_segment_id

ID of the network segment on which the current virtual machine/vport connected to.

Type

String.

Notes

The vswitch_segment_id cannot be updated.

vswitch_segment_id cannot be written.

vswitch_segment_name

`vswitch_segment_name`

Name of the network segment on which the current virtual machine/vport connected to.

Type

String.

Notes

The vswitch_segment_name cannot be updated.

vswitch_segment_name cannot be written.

vswitch_segment_port_group

`vswitch_segment_port_group`

Port group of the network segment on which the current virtual machine/vport connected to.

Type

String.

Notes

The vswitch_segment_port_group cannot be updated.

vswitch_segment_port_group cannot be written.

vswitch_segment_type

`vswitch_segment_type`

Type of the network segment on which the current virtual machine/vport connected to.

Type

String.

Notes

The vswitch_segment_type cannot be updated.

vswitch_segment_type cannot be written.

vswitch_tep_dhcp_server

`vswitch_tep_dhcp_server`

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Notes

The vswitch_tep_dhcp_server cannot be updated.

vswitch_tep_dhcp_server cannot be written.

vswitch_tep_ip

`vswitch_tep_ip`

IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Notes

The vswitch_tep_ip cannot be updated.

vswitch_tep_ip cannot be written.

vswitch_tep_multicast

`vswitch_tep_multicast`

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual swtich.

Type

String.

Notes

The vswitch_tep_multicast cannot be updated.

vswitch_tep_multicast cannot be written.

vswitch_tep_port_group

`vswitch_tep_port_group`

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Notes

The vswitch_tep_port_group cannot be updated.

vswitch_tep_port_group cannot be written.

vswitch_tep_type

`vswitch_tep_type`

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Notes

The vswitch_tep_type cannot be updated.

vswitch_tep_type cannot be written.

vswitch_tep_vlan

`vswitch_tep_vlan`

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type

String.

Notes

The vswitch_tep_vlan cannot be updated.

vswitch_tep_vlan cannot be written.

vswitch_type

`vswitch_type`

Type of the virtual switch: standard or distributed.

Type

String.

Valid values are:

- Distributed
- Standard
- Unknown

Notes

The vswitch_type cannot be updated.

vswitch_type cannot be written.

discoverytaskport : The network discovery TCP port.

This structure represents the TCP port that network discovery jobs use to find IP addresses.

comment

`comment`

The TCP port descriptive comment.

Type

String.

Create

The default value is *empty*.

number

`number`

The TCP port number.

Type

Unsigned integer.

Create

The field is required on creation.

discoverytaskvserver : VMWare discovery server.

Contains information about the vSphere servers on which the VM discovery is performed.

connection_protocol

`connection_protocol`

The connection protocol of a vSphere server.

Type

String.

Valid values are:

- HTTP
- HTTPS

Create

The default value is *HTTPS*.

disable

`disable`

The disable flag of a vSphere server.

Type

Bool.

Create

The default value is *False*.

fqdn_or_ip

`fqdn_or_ip`

The FQDN (Fully Qualified Domain Name) or IP address of the vShpere server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

password

password

The user password on the vSphere server.

Type

String.

Create

The field is required on creation.

Notes

password is not readable.

port

port

The connection port that the vSphere server uses.

Type

Unsigned integer.

Create

The default value is *443*.

username

username

The user name on the vSphere server.

Type

String.

Create

The field is required on creation.

dnsseckey : DNSSEC Key.

The DNSSEC key object.

algorithm

algorithm

The public-key encryption algorithm. Values 1, 3 and 6 are deprecated from NIOS 9.0.

Type

String.

Valid values are:

- 10
- 13
- 14
- 5
- 7
- 8

Notes

The algorithm cannot be updated.

algorithm cannot be written.

next_event_date

`next_event_date`

The next event date for the key, the rollover date for an active key or the removal date for an already rolled one.

Type

Timestamp.

Notes

The next_event_date cannot be updated.

next_event_date cannot be written.

public_key

`public_key`

The Base-64 encoding of the public key.

Type

String.

Values with leading or trailing white space are not valid for this field.

Notes

The public_key cannot be updated.

public_key cannot be written.

status

`status`

The status of the key for the zone.

Type

String.

Valid values are:

- ACTIVE
- IMPORTED
- PUBLISHED
- ROLLED

Notes

The status cannot be updated.

status cannot be written.

tag

`tag`

The tag of the key for the zone.

Type

Unsigned integer.

Create

The field is required on creation.

type

`type`

The key type.

Type

String.

Valid values are:

- KSK
- ZSK

Notes

The type cannot be updated.

type cannot be written.

dnsseckeyalgorithm : DNSSEC Key Algorithm.

The DNSSEC key algorithm structure is used for configuring algorithms for Key-signing and Zone-signing keys. RSAMD5 and DSA algorithm support is deprecated from NIOS 9.0.

algorithm

`algorithm`

The signing key algorithm.

Type

String.

Valid values are:

- ECDSAP256SHA256
- ECDSAP384SHA384
- RSASHA1
- RSASHA256
- RSASHA512

Create

The field is required on creation.

size

`size`

The signing key size, in bits.

Type

Unsigned integer.

Create

The field is required on creation.

dnsseckeyparams : DNSSEC Key parameters.

DNSSEC key parameters.

Note:

Fields ksk_algorithm, ksk_size, zsk_algorithm, zsk_size are deprecated. Use fields ksk_algorithms and zsk_algorithms instead.

The appliance returns deprecated fields with values of the first element in ksk_algorithms and zsk_algorithms lists respectively.

If these deprecated fields are passed, the appliance maps them to the first element of the ksk_algorithms and zsk_algorithms lists respectively. In case if a list already contains more than one element, the appliance returns an error.

enable_ksk_auto_rollover

`enable_ksk_auto_rollover`

If set to True, automatic rollovers for the signing key is enabled.

Type

Bool.

Create

The default value is *False*.

ksk_algorithm

`ksk_algorithm`

Key Signing Key algorithm. Deprecated.

Type

String.

Valid values are:

- 10
- 13
- 14
- 5
- 7
- 8

Create

The default value is *8*.

ksk_algorithms

`ksk_algorithms`

A list of Key Signing Key Algorithms.

Type

A/An DNSSEC Key Algorithm struct array.

Create

The default value is:

```
[{'algorithm': 'RSASHA256', 'size': 2048}]
```

ksk_email_notification_enabled

`ksk_email_notification_enabled`

Enable email notifications for KSK related events.

Type

Bool.

Create

The default value is *False*.

ksk_rollover

`ksk_rollover`

Key Signing Key rollover interval, in seconds.

Type

Unsigned integer.

Create

The default value is *31536000*.

ksk_rollover_notification_config

`ksk_rollover_notification_config`

This field controls events for which users will be notified.

Type

String.

Valid values are:

- ALL
- NONE
- REQUIRE_MANUAL_INTERVENTION

Create

The default value is *REQUIRE_MANUAL_INTERVENTION*.

ksk_size

`ksk_size`

Key Signing Key size, in bits. Deprecated.

Type

Unsigned integer.

Create

The default value is *2048*.

ksk_snmp_notification_enabled

`ksk_snmp_notification_enabled`

Enable SNMP notifications for KSK related events.

Type

Bool.

Create

The default value is *True*.

next_secure_type

`next_secure_type`

NSEC (next secure) types.

Type

String.

Valid values are:

- NSEC
- NSEC3

Create

The default value is *NSEC3*.

nsec3_iterations

`nsec3_iterations`

The number of iterations used for hashing NSEC3. RFC 9276 Section 3.1 mandates that this value MUST be set to zero (0) to ensure DNSSEC resolver compatibility and alleviate computational burdens on validating resolvers.

Type

Unsigned integer.

Create

The default value is *0*.

nsec3_salt_max_length

`nsec3_salt_max_length`

The maximum length for NSEC3 salts. RFC 9276 recommends empty salt (0 octets) for optimal resolver compatibility and reduced computational overhead.

Type

Unsigned integer.

Create

The default value is *0*.

nsec3_salt_min_length

`nsec3_salt_min_length`

The minimum length for NSEC3 salts. RFC 9276 recommends empty salt (0 octets) for optimal resolver compatibility and reduced computational overhead.

Type

Unsigned integer.

Create

The default value is *0*.

signature_expiration

`signature_expiration`

Signature expiration time, in seconds.

Type

Unsigned integer.

Create

The default value is *345600*.

zsk_algorithm

`zsk_algorithm`

Zone Signing Key algorithm. Deprecated.

Type

String.

Valid values are:

- 10
- 13
- 14
- 5
- 7
- 8

Create

The default value is *8*.

zsk_algorithms

`zsk_algorithms`

A list of Zone Signing Key Algorithms.

Type

A/An DNSSEC Key Algorithm struct array.

Create

The default value is:

```
[{'algorithm': 'RSASHA256', 'size': 1024}]
```

zsk_rollover

`zsk_rollover`

Zone Signing Key rollover interval, in seconds.

Type

Unsigned integer.

Create

The default value is *2592000*.

zsk_rollover_mechanism

`zsk_rollover_mechanism`

Zone Signing Key rollover mechanism.

Type

String.

Valid values are:

- DOUBLE_SIGN
- PRE_PUBLISH

Create

The default value is *PRE_PUBLISH*.

zsk_size

`zsk_size`

Zone Signing Key size, in bits. Deprecated.

Type

Unsigned integer.

Create

The default value is *1024*.

dnssectrustedkey : DNSSEC Trusted Key.

This is the the DNSKEY record that holds the KSK as a trust anchor for each zone for which the Grid member returns validated data.

algorithm

`algorithm`

The DNSSEC algorithm used to generate the key.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

dnssec_must_be_secure

`dnssec_must_be_secure`

Responses must be DNSSEC secure for this hierarchy/domain.

Type

Bool.

Create

The default value is *False*.

fqdn

`fqdn`

The FQDN of the domain for which the member validates responses to recursive queries.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

key

`key`

The DNSSEC key.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

secure_entry_point

`secure_entry_point`

The secure entry point flag, if set it means this is a KSK configuration.

Type

Bool.

Create

The default value is *True*.

dnsserver : Microsoft server DNS.

This structure contains DNS properties of microsoft server

address

`address`

MS Server ip address

Type

String.

Notes

The address cannot be updated.

address cannot be written.

enable_dns_reports_sync

enable_dns_reports_sync

Enable or Disable MS DNS data for reports from this MS Server

Type

Bool.

Create

The default value is *undefined*.

Notes

enable_dns_reports_sync is associated with the field use_enable_dns_reports_sync (see use flag).

enable_monitoring

enable_monitoring

Flag indicating if the DNS service is monitored and controlled

Type

Bool.

Create

The default value is *undefined*.

Notes

enable_monitoring is associated with the field use_enable_monitoring (see use flag).

forwarders

forwarders

Ordered list of IP addresses to forward queries to

Type

String.

Notes

The forwarders cannot be updated.

forwarders cannot be written.

last_sync_detail

last_sync_detail

Detailed status of the last synchronization attempt

Type

String.

Notes

The last_sync_detail cannot be updated.

last_sync_detail cannot be written.

last_sync_status

last_sync_status

Status of the last synchronization attempt

Type

String.

Valid values are:

- MS_SYNC_ERROR
- MS_SYNC_OK
- MS_SYNC_WARNING

Notes

The last_sync_status cannot be updated.

last_sync_status cannot be written.

last_sync_ts

`last_sync_ts`

Timestamp of the last synchronization attempt

Type

Timestamp.

Notes

The last_sync_ts cannot be updated.

last_sync_ts cannot be written.

login_name

`login_name`

Microsoft Server login name

Type

String.

Create

The default value is *empty*.

Notes

login_name is associated with the field use_login (see use flag).

login_password

`login_password`

Microsoft Server login password

Type

String.

Create

The default value is *undefined*.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

managed

managed

flag indicating if the DNS service is managed

Type

Bool.

Create

The default value is *undefined*.

next_sync_control

next_sync_control

Defines what control to apply on the DNS server

Type

String.

Valid values are:

- NONE
- START
- STOP

Create

The default value is *undefined*.

status

status

Status of the Microsoft DNS Service

Type

String.

Valid values are:

- OFFLINE
- UNKNOWN

Notes

The status cannot be updated.

status cannot be written.

status_detail

status_detail

Detailed status of the DNS status

Type

String.

Notes

The status_detail cannot be updated.

status_detail cannot be written.

status_last_updated

`status_last_updated`

Timestamp of the last update

Type

Timestamp.

Notes

The status_last_updated cannot be updated.

status_last_updated cannot be written.

supports_active_directory

`supports_active_directory`

Flag indicating if the server supports AD integrated zones

Type

Bool.

Notes

The supports_active_directory cannot be updated.

supports_active_directory cannot be written.

supports_dnssec

`supports_dnssec`

Flag indicating if the server supports

Type

Bool.

Notes

The supports_dnssec cannot be updated.

supports_dnssec cannot be written.

supports_ipv6

`supports_ipv6`

Flag indicating if the server supports IPv6

Type

Bool.

Notes

The supports_ipv6 cannot be updated.

supports_ipv6 cannot be written.

supports_ipv6_reverse

supports_ipv6_reverse

Flag indicating if the server supports reverse IPv6 zones

Type

Bool.

Notes

The supports_ipv6_reverse cannot be updated.

supports_ipv6_reverse cannot be written.

supports_rr_dname

supports_rr_dname

Flag indicating if the server supports DNAME records

Type

Bool.

Notes

The supports_rr_dname cannot be updated.

supports_rr_dname cannot be written.

supports_rr_naptr

supports_rr_naptr

Flag indicating if the server supports NAPTR records

Type

Bool.

Notes

The supports_rr_naptr cannot be updated.

supports_rr_naptr cannot be written.

synchronization_min_delay

synchronization_min_delay

Minimum number of minutes between two synchronizations

Type

Unsigned integer.

Create

The default value is *12*.

Notes

synchronization_min_delay is associated with the field use_synchronization_min_delay (see use flag).

use_enable_dns_reports_sync

use_enable_dns_reports_sync

Override enable reports data inherited from grid level

Type

Bool.

Create

The default value is *False*.

use_enable_monitoring

`use_enable_monitoring`

Override enable monitoring inherited from grid level

Type

Bool.

Create

The default value is *False*.

use_login

`use_login`

Flag to override login name and password from the MS Server

Type

Bool.

Create

The default value is *undefined*.

use_synchronization_min_delay

`use_synchronization_min_delay`

Flag to override synchronization interval from the MS Server

Type

Bool.

Create

The default value is *False*.

dnstapsetting : DNSTAP Setting.

This struct provides information and configuration for DNSTAP receiver.

dnstap_receiver_address_or_fqdn

`dnstap_receiver_address_or_fqdn`

Address or FQDN of DNSTAP receiver.

Type

String.

Create

The field is required on creation.

Notes

The dnstap_receiver_address_or_fqdn is part of the base object.

dnstap_receiver_port

`dnstap_receiver_port`

DNSTAP receiver port number.

Type

Unsigned integer.

Create

The field is required on creation.

Notes

The dnstap_receiver_port is part of the base object.

dnstap_version

`dnstap_version`

DNSTAP version.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

dtc:health : Health information.

The DTC Health structure contains health information of the DTC objects.

availability

`availability`

The availability color status.

Type

String.

Valid values are:

- BLUE
- GRAY
- GREEN
- NONE
- RED
- YELLOW

Create

The default value is *NONE*.

description

description

The textual description of the object's status.

Type

String.

Create

The default value is *Empty string*.

enabled_state

enabled_state

The enabled state of the object.

Type

String.

Valid values are:

- DISABLED
- DISABLED_BY_PARENT
- ENABLED
- NONE

Create

The default value is *NONE*.

dtc:monitor:snmp:oid : DTC SNMP Monitor OID.

SNMP is a stateless request-response protocol for monitoring and managing devices on the network. The SNMP agent (software running on the monitored server) exposes management data in the form of variables. Each variable is associated with a unique ID called OID.

comment

comment

The comment for a DTC SNMP Health Monitor OID object.

Type

String.

Create

The default value is *empty*.

condition

condition

The condition of the validation result for an SNMP health check. The following conditions can be applied to the health check results:

'ANY' accepts any response;

'EXACT' accepts result equal to 'first';

'LEQ' accepts result which is less than 'first';

'GEQ' accepts result which is greater than 'first';

'RANGE' accepts result value of which is between 'first' and 'last'.

Type

String.

Valid values are:

- ANY
- EXACT
- GEQ
- LEQ
- RANGE

Create

The default value is *ANY*.

first

`first`

The condition's first term to match against the SNMP health check result.

Type

String.

Create

The default value is *empty*.

last

`last`

The condition's second term to match against the SNMP health check result with 'RANGE' condition.

Type

String.

Create

The default value is *empty*.

oid

`oid`

The SNMP OID value for DTC SNMP Monitor health checks.

Type

String.

Create

The field is required on creation.

type

`type`

The value of the condition type for DTC SNMP Monitor health check results.

Type

String.

Valid values are:

- INTEGER
- STRING

Create

The default value is *STRING*.

dtc:pool:consolidated_monitor_health : Consolidated monitor health structure.

availability

`availability`

Servers assigned to a pool with monitor defined are healthy if ANY or ALL members report healthy status.

Type

String.

Valid values are:

- ALL
- ANY

Create

The field is required on creation.

full_health_communication

`full_health_communication`

Flag for switching health performing and sharing behavior to perform health checks on each DTC grid member that serves related LBDN(s) and send them across all DTC grid members from both selected and non-selected lists.

Type

Bool.

Create

The default value is *False*.

members

`members`

Members whose monitor statuses are shared across other members in a pool.

Type

String array.

Create

The default value is *empty*.

monitor

`monitor`

Monitor whose statuses are shared across other members in a pool.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

dtc:pool:link : DTC Pool link.

This structure used to link LBDN object with specific pool from queue.

pool

`pool`

The pool to link with.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

ratio

`ratio`

The weight of pool.

Type

Unsigned integer.

Create

The default value is *empty*.

dtc:query:result : Query records.

The structure contains result of a query call.

rdata

`rdata`

DNS record data. Address for A or AAAA and name for CNAME.

Type

String.

Notes

The rdata cannot be updated.

rdata cannot be written.

ttl

`ttl`

The Time To Live (TTL) value for which the zone is valid or being cached. The 32-bit unsigned integer represents the duration in seconds. Zero indicates that the zone should not be cached.

Type

Unsigned integer.

Notes

The ttl cannot be updated.

ttl cannot be written.

type

`type`

DNS type of a record.

Type

String.

Valid values are:

- A
- AAAA
- CNAME
- NAPTR
- SRV

Notes

The type cannot be updated.

type cannot be written.

use_ttl

`use_ttl`

Determines whether the zone TTL is overridden or not.

Type

Bool.

Notes

The use_ttl cannot be updated.

use_ttl cannot be written.

dtc:server:link : DTC Server link.

This structure used to link object with specific server from queue.

ratio

`ratio`

The weight of server.

Type

Unsigned integer.

Create

The default value is *empty*.

server

`server`

The server to link with.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

dtc:server:monitor : DTC Server Monitor.

This structure used to link DTC server with specific DTC Monitor.

host

`host`

IP address or FQDN of the server used for monitoring.

Type

String.

Create

The default value is *empty*.

monitor

`monitor`

The monitor related to server.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

dtc:topology:rule:destination : DTC topology rule destination.

The structure contains information about DTC topology rule destination.

destination_link

`destination_link`

The reference to the destination DTC pool or DTC server.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

priority

`priority`

Priority.

Type

Integer.

Create

The field is required on creation.

dtc:topology:rule:source : DTC topology rule source.

The structure contains information about DTC topology rule source.

source_op

`source_op`

The operation used to match the value.

Type

String.

Valid values are:

- IS
- IS_NOT

Create

The default value is *undefined*.

source_type

`source_type`

The source type.

Type

String.

Valid values are:

- CITY
- CONTINENT
- COUNTRY
- EA0
- EA1
- EA2
- EA3
- SUBDIVISION
- SUBNET

Create

The field is required on creation.

source_value

`source_value`

The source value.

Type

String.

Create

The field is required on creation.

dxl:endpoint:broker : The Data Exchange Layer endpoint broker structure.

DXL brokers are installed on managed systems for routing messages between connected clients. The broker networks track active consumers and dynamically adjust the message routing as needed. When a client requests a service or when an update is broadcasted, the brokers relay these messages.

The DXL endpoint broker structure is used to configure DXL broker settings for a particular DXL endpoint.

address

`address`

The IPv4 Address or IPv6 Address for the DXL endpoint broker.

Type

String.

Create

The default value is *empty*.

host_name

`host_name`

The FQDN for the DXL endpoint broker.

Type

String.

Create

The field is required on creation.

port

`port`

The communication port for the DXL endpoint broker.

Type

Unsigned integer.

Create

The default value is *8883*.

unique_id

`unique_id`

The unique identifier for the DXL endpoint.

Type

String.

Create

The default value is *empty*.

eaexpressionop : Extensible attribute expression operand.

The extensible attribute expression operand structure is used to build an extensible attribute expression lists. The allowed values for the expression operand structure depend on the object they appear to be a part of.

op

op

The operation name.

Type

String.

Valid values are:

- AND
- ENDLIST
- EQ
- EXISTS
- GE
- GT
- LE
- LT
- MATCH_CIDR
- MATCH_IP
- MATCH_RANGE
- NOT_EQ
- NOT_EXISTS
- OR

Create

The field is required on creation.

op1

op1

The name of the Extensible Attribute Definition object which is used as the first operand value.

Type

String.

Create

The default value is *undefined*.

op1_type

`op1_type`

The first operand type.

Type

String.

Valid values are:

- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

op2

`op2`

The second operand value.

Type

String.

Create

The default value is *undefined*.

op2_type

`op2_type`

The second operand type.

Type

String.

Valid values are:

- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

exclusionrange : Exclusion range.

These are ranges of IP addresses that the appliance does not use to assign to clients. You can use these exclusion addresses as static IP addresses. They contain the start and end addresses of the exclusion range, and optionally, information about this exclusion range.

comment

`comment`

Comment for the exclusion range; maximum 256 characters.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

end_address

`end_address`

The IPv4 Address ending address of the exclusion range.

Type

String.

Create

The field is required on creation.

start_address

`start_address`

The IPv4 Address starting address of the exclusion range.

Type

String.

Create

The field is required on creation.

exclusionrangetemplate : Exclusion range template.

The DHCP exclusion range template describes the range of IP addresses that can be excluded in an address range template. If static IP addresses are assigned to certain hosts in the middle of an address range, those addresses can be excluded from the address range so the DHCP server does not assign those IP addresses to the clients.

comment

`comment`

A descriptive comment of a DHCP exclusion range template.

Type

String.

Create

The default value is *empty*.

number_of_addresses

`number_of_addresses`

The number of addresses in the DHCP exclusion range template.

Type

Unsigned integer.

Create

The field is required on creation.

offset

`offset`

The address offset of the DHCP exclusion range template.

Type

Unsigned integer.

Create

The field is required on creation.

expressionop : Expression operand.

The expression operand structure is used to build expression lists. The allowed values for the expression operand structure depend on the object they appear to be a part of.

op

op

The operation name.

Type

String.

Valid values are:

- AND
- ENDLIST
- EQ
- EXISTS
- GE
- GT
- LE
- LT
- MATCH_CIDR
- MATCH_IP
- MATCH_RANGE
- NOT_EQ
- NOT_EXISTS
- OR

Create

The field is required on creation.

op1

op1

The first operand value.

Type

String.

Create

The default value is *undefined*.

op1_type

`op1_type`

The first operand type.

Type

String.

Valid values are:

- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

op2

`op2`

The second operand value.

Type

String.

Create

The default value is *undefined*.

op2_type

`op2_type`

The second operand type.

Type

String.

Valid values are:

- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

extensibleattributedef:descendants : Descendants.

The structure describes what to do with descendant's extensible attribute, if the value is different from the parent's.

There are three possible cases, for each of them there is a specific option in the structure.

option_delete_ea

option_delete_ea

This option describes which action must be taken if the extensible attribute exists for the descendant, but is absent for the parent object:

- RETAIN: retain the extensible attribute value for the descendant object.
- REMOVE: remove this extensible attribute from the descendant object.

Type

String.

Valid values are:

- REMOVE
- RETAIN

Create

The default value is *undefined*.

option_with_ea

option_with_ea

This option describes which action must be taken if the extensible attribute exists for both the parent and descendant objects:

- INHERIT: inherit the extensible attribute from the parent object.
- RETAIN: retain the value of an extensible attribute that was set for the child object.
- CONVERT: the value of the extensible attribute must be copied from the parent object.

Type

String.

Valid values are:

- CONVERT
- INHERIT
- RETAIN

Create

The default value is *undefined*.

option_without_ea

option_without_ea

This option describes which action must be taken if the extensible attribute exists for the parent, but is absent from the descendant object:

- INHERIT: inherit the extensible attribute from the parent object.
- NOT_INHERIT: do nothing.

Type

String.

Valid values are:

- INHERIT
- NOT_INHERIT

Create

The default value is *undefined*.

extensibleattributedef:listvalues : List of values.

The structure contains the list of extensible attribute values.

value

`value`

Enum value

Type

String.

Create

The default value is *undefined*.

extserver : External Server.

This struct represents an external DNS server.

address

`address`

The IPv4 Address or IPv6 Address of the server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Notes

The address is part of the base object.

name

`name`

A resolvable domain name for the external DNS server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Notes

The name is part of the base object.

shared_with_ms_parent_delegation

`shared_with_ms_parent_delegation`

This flag represents whether the name server is shared with the parent Microsoft primary zone's delegation server.

Type

Bool.

Notes

The shared_with_ms_parent_delegation cannot be updated.

shared_with_ms_parent_delegation cannot be written.

stealth

`stealth`

Set this flag to hide the NS record for the primary name server from DNS queries.

Type

Bool.

Create

The default value is *False*.

tsig_key

`tsig_key`

A generated TSIG key.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

tsig_key_alg

`tsig_key_alg`

The TSIG key algorithm.

Type

String.

Valid values are:

- HMAC-MD5
- HMAC-SHA256

Create

The default value is *HMAC-MD5*.

tsig_key_name

`tsig_key_name`

The TSIG key name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Notes

tsig_key_name is associated with the field use_tsig_key_name (see use flag).

use_tsig_key_name

`use_tsig_key_name`

Use flag for: tsig_key_name

Type

Bool.

Create

The default value is *False*.

extsyslogbackupserver : External syslog backup server.

This structure contains information about the external server for backing up the rotated syslog files.

address_or_fqdn

`address_or_fqdn`

The IPv4 or IPv6 address or FQDN of the backup syslog server.

Type

String.

Create

The field is required on creation.

directory_path

`directory_path`

The directory path for the replication of the rotated syslog files.

Type

String.

Create

The default value is *undefined*.

enable

`enable`

If set to True, the syslog backup server is enabled.

Type

Bool.

Create

The default value is *True*.

password

`password`

The password of the backup syslog server.

Type

String.

Create

The default value is *undefined*.

Notes

password is not readable.

port

`port`

The port used to connect to the backup syslog server.

Type

Unsigned integer.

Create

The default value is *22*.

protocol

`protocol`

The transport protocol used to connect to the backup syslog server.

Type

String.

Valid values are:

- FTP
- SCP

Create

The default value is *SCP*.

username

`username`

The username of the backup syslog server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

federatedrealm : Federated Realms

This structure references Federated Realms.

id

`id`

The federated realm id

Type

String.

Create

The field is required on creation.

name

`name`

The federated realm name

Type

String.

Create

The field is required on creation.

filetransfersetting : File Transfer Setting.

This struct provides information and configuration for captured DNS traffic transfer to a remote server.

directory

`directory`

The directory to save the captured DNS queries and responses.

Type

String.

Create

The default value is *empty*.

password

`password`

The password to access the destination server directory.

Type

String.

Create

The default value is *undefined*.

Notes

password is not readable.

port

port

Transfer scp port.

Type

Unsigned integer.

Create

The default value is *22*.

server_address_or_fqdn

server_address_or_fqdn

The server address or a FQDN name of the destination server for DNS capture transfer.

Type

String.

Create

The default value is *empty*.

type

type

The transfer protocol for the captured DNS queries and responses.

Type

String.

Valid values are:

- FTP
- NONE
- SCP

Create

The default value is *FTP*.

username

username

The username to access the destination server directory.

Type

String.

Create

The default value is *empty*.

filterrule : Filter rule.

This structure references defined DHCP filters.

filter

`filter`

The name of the DHCP filter.

Type

String.

Create

The field is required on creation.

permission

`permission`

The permission to be applied.

Type

String.

Valid values are:

- Allow
- Deny

Create

The field is required on creation.

fireeye:alertmap : FireEye Alert Map.

The FireEye Alert Map used to configure FireEye alerts to Response Policy Zone rules.

alert_type

`alert_type`

The type of Fireeye Alert.

Type

String.

Valid values are:

- DOMAIN_MATCH
- INFECTION_MATCH
- MALWARE_CALLBACK
- MALWARE_OBJECT
- WEB_INFECTION

Create

The field is required on creation.

lifetime

`lifetime`

The expiration Lifetime of alert type. The 32-bit unsigned integer represents the amount of seconds this alert type will live for. 0 means the alert will never expire.

Type

Unsigned integer.

Create

The field is required on creation.

rpz_rule

`rpz_rule`

The RPZ rule for the alert.

Type

String.

Valid values are:

- NODATA
- NONE
- NXDOMAIN
- PASSTHRU
- SUBSTITUTE

Create

The field is required on creation.

fireeye:rulemapping : Fireeye Rule Mapping.

The FireEye Rule Mapping used to configure rule mapping for FireEye devices and Response Policy Zones.

apt_override

`apt_override`

The override setting for APT alerts.

Type

String.

Valid values are:

- NODATA
- NOOVERRIDE
- NXDOMAIN
- PASSTHRU
- SUBSTITUTE

Create

The default value is *undefined*.

fireeye_alert_mapping

`fireeye_alert_mapping`

The FireEye alert mapping.

Type

A/An FireEye Alert Map struct array.

Create

The default value is *undefined*.

substituted_domain_name

substituted_domain_name

The domain name to be substituted, this is applicable only when apt_override is set to “SUBSTITUTE”.

Type

String.

Create

The default value is *undefined*.

forwardingmemberserver : Forwarding Member Server.

This struct contains per-Grid-member forwarding configuration.

forward_to

forward_to

The information for the remote name server to which you want the Infoblox appliance to forward queries for a specified domain name.

Type

A/An External Server struct array.

Create

The default value is:

```
empty
```

Notes

forward_to is associated with the field use_override_forwarders (see use flag).

forwarders_only

forwarders_only

Determines if the appliance sends queries to forwarders only, and not to other internal or Internet root servers.

Type

Bool.

Create

The default value is *False*.

name

name

The name of this Grid member in FQDN format.

Type

String.

Create

The field is required on creation.

use_override_forwarders

`use_override_forwarders`

Use flag for: forward_to

Type

Bool.

Create

The default value is *False*.

gcpdnstask : Gcp DNS task.

This struct represents a single Gcp DNS sync task with various zone filters to retrieve DNS zone data from Gcp service using specified Gcp user credentials.

credentials_type

`credentials_type`

Credentials type used for connecting to the cloud management platform.

Type

String.

Valid values are:

- DIRECT
- INDIRECT

Create

The default value is *DIRECT*.

disabled

`disabled`

Indicates if the task is enabled or disabled.

Type

Bool.

Create

The default value is *False*.

dns_sync_state

`dns_sync_state`

Current state of this task. Not accounting child tasks.

Type

String.

Valid values are:

- CANCELED
- COMPLETED
- FAILED
- IDLE

- PARTIALLY_COMPLETED
- READY
- RUNNING

Notes

The dns_sync_state cannot be updated.

dns_sync_state cannot be written.

dns_sync_status_timestamp

`dns_sync_status_timestamp`

Timestamp when the last state was updated. Not accounting child tasks.

Type

Timestamp.

Notes

The dns_sync_status_timestamp cannot be updated.

dns_sync_status_timestamp cannot be written.

dns_sync_zone_count

`dns_sync_zone_count`

Number of zones successfully synced by this Gcp DNS sync task.

Type

Unsigned integer.

Notes

The dns_sync_zone_count cannot be updated.

dns_sync_zone_count cannot be written.

filter

`filter`

Zone filter for this task.

Type

String.

Create

The default value is *.

gcp_user

`gcp_user`

Reference to associated Gcp user whose credentials are to be used for this task.

Type

String.

This field supports nested return fields as described here.

Create

The network view required if network_view_mapping_policy is set to DIRECT

last_run

last_run

The timestamp when the task was started last.

Type

Timestamp.

Notes

The last_run cannot be updated.

last_run cannot be written.

name

name

The name of this task.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

overlay_state

overlay_state

Current overlay state of this task.

Type

String.

Valid values are:

- COMPLETED
- FAILED
- IDLE
- RUNNING
- WARNING

Notes

The overlay_state cannot be updated.

overlay_state cannot be written.

overlay_status_timestamp

overlay_status_timestamp

Timestamp when the last overlay state was updated.

Type

Timestamp.

Notes

The overlay_status_timestamp cannot be updated.

overlay_status_timestamp cannot be written.

project_sync_state

`project_sync_state`

Current state of project sync for this task.

Type

String.

Valid values are:

- CANCELED
- COMPLETED
- FAILED
- IDLE
- PARTIALLY_COMPLETED
- READY
- RUNNING

Notes

The project_sync_state cannot be updated.

project_sync_state cannot be written.

project_sync_status_timestamp

`project_sync_status_timestamp`

Timestamp when the last state was updated. Not accounting child tasks.

Type

Timestamp.

Notes

The project_sync_status_timestamp cannot be updated.

project_sync_status_timestamp cannot be written.

schedule_interval

`schedule_interval`

Periodic interval for this task.

Type

Unsigned integer.

Create

The default value is *60*.

schedule_units

`schedule_units`

Units for the schedule interval.

Type

String.

Valid values are:

- DAYS
- HOURS
- MINS

Create

The default value is *MINS*.

state

`state`

Current overall state of this task.

Type

String.

Valid values are:

- CANCELED
- COMPLETED
- FAILED
- IDLE
- PARTIALLY_COMPLETED
- READY
- RUNNING

Notes

The state cannot be updated.

state cannot be written.

state_msg

`state_msg`

State message of the complete process.

Type

String.

Notes

The state_msg cannot be updated.

state_msg cannot be written.

status_timestamp

`status_timestamp`

The timestamp when the last state was logged.

Type

Timestamp.

Notes

The status_timestamp cannot be updated.

status_timestamp cannot be written.

sync_interval

sync_interval

Minimum delay between synchronization with Gcp DNS (in seconds).

Type

Unsigned integer.

Notes

The sync_interval cannot be updated.

sync_interval cannot be written.

sync_private_zones

sync_private_zones

Indicates whether private zones are synchronized.

Type

Bool.

Create

The default value is *True*.

sync_public_zones

sync_public_zones

Indicates whether public zones are synchronized.

Type

Bool.

Create

The default value is *True*.

zone_count

zone_count

Number of overall zones successfully synced by this Gcp DNS sync task and it's child tasks.

Type

Unsigned integer.

Notes

The zone_count cannot be updated.

zone_count cannot be written.

gmcgroup:member : gmcgroup member structure

This structure represents the member settings in each group.

member

member

The gmcgroup member name.

Type

String.

Create

The field is required on creation.

grid:attackdetect : DNS attack detection settings.

This structure provides information about DNS attack detection settings.

enable

`enable`

Determines if DNS attack detection is enabled or not.

Type

Bool.

Create

The default value is *True*.

high

`high`

The high threshold value (in percentage) for starting DNS attack detection.

Type

Unsigned integer.

Create

The default value is *empty*.

interval_max

`interval_max`

The maximum number of events that have occurred before processing DNS attack detection.

Type

Unsigned integer.

Create

The default value is *undefined*.

interval_min

`interval_min`

The minimum number of events that have occurred before processing DNS attack detection.

Type

Unsigned integer.

Create

The default value is *empty*.

interval_time

interval_time

The time interval between detection processing.

Type

Unsigned integer.

Create

The default value is *empty*.

low

low

The low threshold value (in percentage) for starting DNS attack detection.

Type

Unsigned integer.

Create

The default value is *empty*.

grid:attackmitigation : DNS Attack Mitigation object.

The DNS Attack Mitigation structure provides information about mitigation configuration for DNS attacks.

detect_chr

detect_chr

Configuration for detecting changes for the Cache Hit Ratio (CHR) of recursive queries.

Type

A/An DNS attack detection settings struct.

Create

The default value is:

```
  { 'enable': True,
'high': 80,
'interval_max': 100000,
'interval_min': 1000,
'interval_time': 10,
'low': 70}
```

detect_chr_grace

detect_chr_grace

The cache utilization (in percentage) when Cache Hit Ratio (CHR) starts.

Type

Unsigned integer.

Create

The default value is *75*.

detect_nxdomain_responses

`detect_nxdomain_responses`

Configuration for detecting NXDOMAIN responses from up-stream servers to all incoming recursive responses.

Type

A/An DNS attack detection settings struct.

Create

The default value is:

```
  { 'enable': True,
'high': 80,
'interval_max': 100000,
'interval_min': 1000,
'interval_time': 10,
'low': 70}
```

detect_udp_drop

`detect_udp_drop`

Configuration for detecting the UDP packet drop rate.

Type

A/An DNS attack detection settings struct.

Create

The default value is:

```
  { 'enable': True,
'high': 30,
'interval_min': 1000,
'interval_time': 10,
'low': 20}
```

interval

`interval`

The minimum time interval (in seconds) between changes in attack status.

Type

Unsigned integer.

Create

The default value is *10*.

grid:autoblackhole : DNS Auto Blackhole settings.

The DNS Auto Blackhole provides information about DNS auto blackhole configuration.

enable_fetches_per_server

`enable_fetches_per_server`

Enables or disables the configuration of the maximum number of concurrent recursive queries the appliance sends to each upstream DNS server.

Type

Bool.

Create

The default value is *False*.

enable_fetches_per_zone

`enable_fetches_per_zone`

Enables or disables the configuration of the maximum number of concurrent recursive queries the appliance sends to each DNS zone.

Type

Bool.

Create

The default value is *False*.

enable_holddown

`enable_holddown`

Enables or disables the holddown configuration when the appliance stops sending queries to non-responsive servers.

Type

Bool.

Create

The default value is *False*.

fetches_per_server

`fetches_per_server`

The maximum number of concurrent recursive queries the appliance sends to a single upstream name server before blocking additional queries to that server.

Type

Unsigned integer.

Create

The default value is *500*.

fetches_per_zone

`fetches_per_zone`

The maximum number of concurrent recursive queries that a server sends for its domains.

Type

Unsigned integer.

Create

The default value is *200*.

fps_freq

fps_freq

Determines how often (in number of recursive responses) the appliance recalculates the average timeout ratio for each DNS server.

Type

Unsigned integer.

Create

The default value is *200*.

holddown

holddown

The holddown duration for non-responsive servers.

Type

Unsigned integer.

Create

The default value is *60*.

holddown_threshold

holddown_threshold

The number of consecutive timeouts before holding down a non-responsive server.

Type

Unsigned integer.

Create

The default value is *5*.

holddown_timeout

holddown_timeout

The minimum time (in seconds) that needs to be passed before a timeout occurs. Note that only these timeouts are counted towards the number of consecutive timeouts.

Type

Unsigned integer.

Create

The default value is *1000*.

grid:certverificationresult : Openssl verification result for one certificate.

Struct for storing certificate verification message.

file_or_serial

file_or_serial

Filename or serial number

Type

String.

Notes

The file_or_serial cannot be updated.

file_or_serial cannot be written.

verify_result

`verify_result`

OpenSSL message

Type

String.

Notes

The verify_result cannot be updated.

verify_result cannot be written.

grid:cloudapi:gateway:config : Gateway config.

Structure containing all the information related to Gateway configuration.

enable_proxy_service

`enable_proxy_service`

Enable Gateway Service.

Type

Bool.

Create

The default value is *undefined*.

endpoint_mapping

`endpoint_mapping`

List of Gateway FQDN to AWS Endpoint Mapping.

Type

A/An Endpoint mapping struct array.

Create

The default value is *undefined*.

port

`port`

Gateway port

Type

Unsigned integer.

Create

The default value is *undefined*.

grid:cloudapi:gateway:endpointmapping : Endpoint mapping.

Structure defining an entry in the mapping table of Gateway to AWS endpoint.

endpoint_fqdn

`endpoint_fqdn`

Endpoint FQDN.

Type

String.

Create

The default value is *undefined*.

gateway_fqdn

`gateway_fqdn`

Gateway FQDN.

Type

String.

Create

The default value is *undefined*.

grid:cloudapi:info : Cloud Information.

The structure aggregates all information related to Cloud objects.

authority_type

`authority_type`

Type of authority over the object.

Type

String.

Valid values are:

- CP
- GM
- NONE

Notes

The authority_type cannot be updated.

authority_type cannot be written.

delegated_member

delegated_member

The Cloud Platform Appliance to which authority of the object is delegated.

Type

A/An Grid member serving DHCP struct.

Create

The default value is *undefined*.

Notes

The delegated_member is part of the base object.

delegated_root

delegated_root

Indicates the root of the delegation if delegated_scope is SUBTREE or RECLAIMING. This is not set otherwise.

Type

String.

Notes

The delegated_root cannot be updated.

delegated_root cannot be written.

delegated_scope

delegated_scope

Indicates the scope of delegation for the object. This can be one of the following: NONE (outside any delegation), ROOT (the delegation point), SUBTREE (within the scope of a delegation), RECLAIMING (within the scope of a delegation being reclaimed, either as the delegation point or in the subtree).

Type

String.

Valid values are:

- NONE
- RECLAIMING
- ROOT
- SUBTREE

Notes

The delegated_scope is part of the base object.

The delegated_scope cannot be updated.

delegated_scope cannot be written.

mgmt_platform

mgmt_platform

Indicates the specified cloud management platform.

Type

String.

Notes

The mgmt_platform cannot be updated.

mgmt_platform cannot be written.

owned_by_adaptor

`owned_by_adaptor`

Determines whether the object was created by the cloud adapter or not.

Type

Bool.

Notes

The owned_by_adaptor cannot be updated.

owned_by_adaptor cannot be written.

tenant

`tenant`

Reference to the tenant object associated with the object, if any.

Type

String.

This field supports nested return fields as described here.

Notes

The tenant cannot be updated.

tenant cannot be written.

usage

`usage`

Indicates the cloud origin of the object.

Type

String.

Valid values are:

- ADAPTER
- DELEGATED
- NONE
- USED_BY

Notes

The usage is part of the base object.

The usage cannot be updated.

usage cannot be written.

grid:cloudapi:user : Cloud user.

This object represents Cloud grid user.

is_remote

`is_remote`

Determines whether this is a remote admin user.

Type

Bool.

Create

The default value is *undefined*.

Notes

The is_remote is part of the base object.

local_admin

`local_admin`

Local administrator who can perform cloud API requests on the Cloud Platform Appliance.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

Notes

The local_admin is part of the base object.

remote_admin

`remote_admin`

Username that matches a remote administrator who can perform cloud API requests on the Cloud Platform Appliance.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

grid:consentbannersetting : Consent banner setting.

This structure contains configuration for consent banner. This banner appears as the first screen when users access Grid Manager. Users must read the terms and conditions and then click Accept on the consent screen before they can access the login screen of Grid Manager.

enable

`enable`

Determines whether the consent banner is enabled.

Type

Bool.

Create

The default value is *False*.

message

`message`

The message included in the consent banner.

Type

String.

Create

The default value is *empty*.

grid:cspapiconfig : Csp Api config.

This structure contains a csp api config.

password

`password`

The password for the CspApiConfig.

Type

String.

Create

The default value is *empty*.

Notes

The password cannot be updated.

password is not readable.

url

`url`

The url for the CspApiConfig.

Type

String.

Notes

The url cannot be updated.

url cannot be written.

username

`username`

The user name for the CspApiConfig.

Type

String.

Create

The default value is *empty*.

Notes

The username cannot be updated.

grid:cspgridsetting : CSP Grid setting

Structure specify csp setting for grid. Test Setting will be performed for any change under CSP_grid_setting.

csp_dns_resolver

`csp_dns_resolver`

IP address of DNS resolver in DFP

Type

String.

Create

The default value is *undefined*.

csp_https_proxy

`csp_https_proxy`

HTTP Proxy IP address of CSP Portal

Type

String.

Create

The default value is *undefined*.

csp_https_proxy_password

`csp_https_proxy_password`

Password for HTTPS proxy used to access the CSP Portal. This is write-only.

Type

String.

Create

The default value is *empty*.

Notes

csp_https_proxy_password is not readable.

csp_https_proxy_username

`csp_https_proxy_username`

Username for HTTPS proxy used to access the CSP Portal

Type

String.

Create

The default value is *empty*.

csp_join_token

`csp_join_token`

Join token required to connect to a cluster

Type

String.

Create

The default value is *empty*.

grid:dns:fixedrrsetorderfqdn : Fixed RRset order FQDN.

A fixed RRset order FQDN contains information about the fixed RRset configuration items.

fqdn

`fqdn`

The FQDN of the fixed RRset configuration item.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

record_type

`record_type`

The record type for the specified FQDN in the fixed RRset configuration.

Type

String.

Valid values are:

- A
- AAAA
- BOTH

Create

The default value is *A*.

grid:informationalbannersetting : Informational level

banner setting.

This structure contains configuration for informational banner. The informational banner can be published for multiple uses, such as to indicate whether the Infoblox Grid is in production or a lab system. The banner can also be used for issuing messages of the day. The informational level banner appears on the header of the Grid Manager screen.

color

`color`

The color for the informational level banner.

Type

String.

Valid values are:

- BLACK
- BLUE
- BROWN
- CYAN
- GREEN
- MAGENTA
- ORANGE
- PURPLE
- RED
- YELLOW

Create

The default value is *GREEN*.

enable

`enable`

Determines whether the display of the informational level banner is enabled.

Type

Bool.

Create

The default value is *True*.

message

`message`

The message included in the informational level banner.

Type

String.

Create

The default value is *empty*.

grid:licensesubpool : License sub-pool settings.

expiry_date

expiry_date

License expiration date.

Type

Timestamp.

Notes

The expiry_date cannot be updated.

expiry_date cannot be written.

installed

installed

The total number of dynamic licenses allowed for this license subpool.

Type

Unsigned integer.

Notes

The installed cannot be updated.

installed cannot be written.

key

key

The license string for the license subpool.

Type

String.

Notes

The key cannot be updated.

key cannot be written.

grid:lockoutsetting : Lockout Security Setting

Structure specify security lockout setting.

enable_sequential_failed_login_attempts_lockout

enable_sequential_failed_login_attempts_lockout

Enable/disable sequential failed login attempts lockout for local users

Type

Bool.

Create

The default value is *False*.

failed_lockout_duration

failed_lockout_duration

Time period the account remains locked after sequential failed login attempt lockout.

Type

Unsigned integer.

Create

The default value is *5*.

never_unlock_user

never_unlock_user

Never unlock option is also provided and if set then user account is locked forever and only super user can unlock this account

Type

Bool.

Create

The default value is *False*.

sequential_attempts

sequential_attempts

The number of failed login attempts

Type

Unsigned integer.

Create

The default value is *5*.

grid:loggingcategories : Grid logging setting information.

The logging categories. It is possible to specify several BIND logging message categories to be captured by syslog.

log_client

log_client

Determines whether the client requests are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_config

log_config

Determines whether the configuration file parsing is captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_database

`log_database`

Determines whether the BIND's internal database processes are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_dnssec

`log_dnssec`

Determines whether the DNSSEC-signed responses are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_dtc_gslb

`log_dtc_gslb`

Determines whether the DTC GSLB activity is captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_dtc_health

`log_dtc_health`

Determines whether the DTC health monitoring information is captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_general

`log_general`

Determines whether the BIND messages that are not specifically classified are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_lame_servers

`log_lame_servers`

Determines whether the bad delegation instances are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_network

`log_network`

Determines whether the network operation messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_notify

`log_notify`

Determines whether the asynchronous zone change notification messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_queries

`log_queries`

Determines whether the query messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_query_rewrite

`log_query_rewrite`

Determines whether the query rewrite messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_rate_limit

`log_rate_limit`

Determines whether the rate limit messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_resolver

`log_resolver`

Determines whether the DNS resolution instances, including recursive queries from resolvers are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_responses

`log_responses`

Determines whether the response messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_rpz

`log_rpz`

Determines whether the Response Policy Zone messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_security

log_security

Determines whether the approved and denied requests are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_update

log_update

Determines whether the dynamic update instances are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_update_security

log_update_security

Determines whether the security update messages are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_xfer_in

log_xfer_in

Determines whether the zone transfer messages from the remote name servers to the appliance are captured or not.

Type

Bool.

Create

The default value is *undefined*.

log_xfer_out

log_xfer_out

Determines whether the zone transfer messages from the Infoblox appliance to remote name servers are captured or not.

Type

Bool.

Create

The default value is *undefined*.

grid:ntp : The Grid Network Time Protocol (NTP) settings structure.

The Grid NTP settings structure is used to control the NTP synchronization of the date and time for all Infoblox appliances.

enable_ntp

`enable_ntp`

Determines whether NTP is enabled on the Grid.

Type

Bool.

Create

The default value is *False*.

gm_local_ntp_stratum

`gm_local_ntp_stratum`

Grid level GM local NTP stratum.

Type

Unsigned integer.

Create

The default value is *13*.

local_ntp_stratum

`local_ntp_stratum`

Local NTP stratum for non-GM members.

Type

Unsigned integer.

Create

The default value is *15*.

ntp_acl

`ntp_acl`

The NTP access control settings.

Type

A/An The Network Time Protocol (NTP) access control setting struct.

Create

The default value is:

```
{'ac_list': [], 'acl_type': 'NONE', 'service': 'TIME'}
```

ntp_keys

`ntp_keys`

The list of NTP authentication keys used to authenticate NTP clients.

Type

A/An The Network Time Protocol (NTP) authentication key structure struct array.

Create

The default value is:

```
empty
```

ntp_kod

`ntp_kod`

Determines whether the Kiss-o'-Death packets are enabled.

Type

Bool.

Create

The default value is *False*.

ntp_servers

`ntp_servers`

The list of NTP servers configured on a Grid.

Type

A/An The Network Time Protocol (NTP) server structure struct array.

Create

The default value is:

```
empty
```

use_default_stratum

`use_default_stratum`

This flag controls whether gm_local_ntp_stratum value be set to a default value

Type

Bool.

Create

The default value is *False*.

grid:responseratelimiting : DNS Response Rate Limiting.

The DNS Response Rate Limiting structure provides information about DNS response rate limiting configuration.

enable_rrl

`enable_rrl`

Determines if the response rate limiting is enabled or not.

Type

Bool.

Create

The default value is *False*.

log_only

`log_only`

Determines if logging for response rate limiting without dropping any requests is enabled or not.

Type

Bool.

Create

The default value is *False*.

responses_per_second

`responses_per_second`

The number of responses per client per second.

Type

Unsigned integer.

Create

The default value is *100*.

slip

`slip`

The response rate limiting slip. Note that if slip is not equal to 0 every n-th rate-limited UDP request is sent a truncated response instead of being dropped.

Type

Unsigned integer.

Create

The default value is *2*.

window

`window`

The time interval in seconds over which responses are tracked.

Type

Unsigned integer.

Create

The default value is *15*.

grid:restartbannersetting : Restart Banner Setting.

This structure contains information about the Restart Banner.

enable_double_confirmation

`enable_double_confirmation`

If set to True, the user is required to input name before restarting the services.

Type

Bool.

Create

The default value is *False*.

enabled

`enabled`

If set to True, the restart banner is enabled.

Type

Bool.

Create

The default value is *True*.

grid:servicerestart : Restart Setting.

The restart setting at the Grid level.

delay

`delay`

The time duration to delay a restart for a restart group.

Type

Unsigned integer.

Create

The default value is *10*.

restart_offline

`restart_offline`

Determines whether the Grid should try to restart offline member.

Type

Bool.

Create

The default value is *True*.

timeout

`timeout`

The duration of timeout for a restart group. The value “-1” means infinite.

Type

Integer.

Create

The default value is *60*.

grid:servicerestart:group:schedule : Restart Group Schedule.

This struct contains information about Restart Group scheduling settings.

force

`force`

Determines if the Restart Group should have a force restart.

Type

Bool.

Create

The default value is *False*.

mode

`mode`

The restart method for a Grid restart.

Type

String.

Valid values are:

- GROUPED
- SEQUENTIAL
- SIMULTANEOUS

Create

The default value is *empty*.

schedule

`schedule`

The Schedule Setting struct that determines the schedule for the restart.

Type

A/An Schedule Setting struct.

Create

The field is required on creation.

services

`services`

The list of applicable services for the restart.

Type

Enum values array.

Valid values are:

- ALL
- DHCP
- DHCPV4
- DHCPV6
- DNS

Create

The default value is *ALL*.

gridmember_soamname : Per-master SOA MNAME Information.

This struct contains the SOA MNAME and the primary server for this zone.

dns_mname

`dns_mname`

Master’s SOA MNAME in punycode format.

Type

String.

Notes

The dns_mname cannot be updated.

dns_mname cannot be written.

grid_primary

`grid_primary`

The grid primary server for the zone. Only one of “grid_primary” or “ms_server_primary” should be set when modifying or creating the object.

Type

String.

Create

The default value is *undefined*.

Notes

The grid_primary is part of the base object.

mname

`mname`

Master’s SOA MNAME. This value can be in unicode format.

Type

String.

Create

The default value is *undefined*.

Notes

The mname is part of the base object.

ms_server_primary

`ms_server_primary`

The primary MS server for the zone. Only one of “grid_primary” or “ms_server_primary” should be set when modifying or creating the object.

Type

String.

Create

The default value is *undefined*.

Notes

The ms_server_primary is part of the base object.

gridmember_soaserial : Per-master SOA Serial Information.

This struct contains the SOA serial number and the primary server for this zone.

grid_primary

`grid_primary`

The grid primary server for the zone. Only one of “grid_primary” or “ms_server_primary” will be set when the object is retrieved from the server.

Type

String.

Notes

The grid_primary cannot be updated.

grid_primary cannot be written.

ms_server_primary

`ms_server_primary`

The primary MS server for the zone. Only one of “grid_primary” or “ms_server_primary” will be set when the object is retrieved from the server.

Type

String.

Notes

The ms_server_primary cannot be updated.

ms_server_primary cannot be written.

serial

`serial`

The SOA serial number.

Type

Unsigned integer.

Notes

The serial cannot be updated.

serial cannot be written.

hotfix : Upgrade process hotfix.

The structure provides information about the status of upgrade process hotfixes.

status_text

`status_text`

The status text of the hotfix.

Type

String.

Create

The default value is *undefined*.

unique_id

`unique_id`

Unique ID of the hotfix.

Type

String.

Create

The default value is *undefined*.

hsm:entrustnshield : Entrust nShield Hardware Security Module.

The Entrust nShield Hardware Security Module (HSM) structure represents the Entrust nShield HSM device configuration.

disable

`disable`

Determines whether the Entrust nShield HSM device is disabled.

Type

Bool.

Create

The default value is *False*.

keyhash

`keyhash`

The Entrust nShield HSM device public key digest.

Type

String.

Create

The default value is *empty*.

remote_esn

`remote_esn`

The Entrust nShield HSM device electronic serial number.

Type

String.

Notes

The remote_esn cannot be updated.

remote_esn cannot be written.

remote_ip

`remote_ip`

The IPv4 Address of the Entrust nShield HSM device.

Type

String.

Create

The field is required on creation.

remote_port

`remote_port`

The Entrust nShield HSM device destination port.

Type

Unsigned integer.

Create

The default value is *9004*.

status

`status`

The Entrust nShield HSM device status.

Type

String.

Valid values are:

- DOWN
- UP

Notes

The status cannot be updated.

status cannot be written.

hsm:safenet : SafeNet Hardware Security Module.

Deprecated. You need to use Thales Luna Object instead. The Harware Security Module (HSM) SafeNet structure represents the HSM SafeNet device configuration.

disable

`disable`

Determines whether the HSM SafeNet device is disabled.

Type

Bool.

Create

The default value is *False*.

is_fips_compliant

`is_fips_compliant`

Determines whether the HSM SafeNet device is FIPS compliant.

Type

Bool.

Notes

The is_fips_compliant cannot be updated.

is_fips_compliant cannot be written.

name

`name`

The HSM SafeNet device IPv4 Address or FQDN.

Type

String.

Create

The field is required on creation.

partition_capacity

`partition_capacity`

The HSM SafeNet device partition capacity percentage used.

Type

Unsigned integer.

Notes

The partition_capacity cannot be updated.

partition_capacity cannot be written.

partition_id

`partition_id`

Partition ID that is displayed after the appliance has successfully connected to the HSM SafeNet device.

Type

String.

Notes

The partition_id cannot be updated.

partition_id cannot be written.

partition_serial_number

`partition_serial_number`

The HSM SafeNet device partition serial number (PSN).

Type

String.

Create

The field is required on creation.

server_cert

`server_cert`

The token returned by the uploadinit function call in object fileop for a SafeNet HSM device certificate.

Type

String.

Create

The default value is *undefined*.

Notes

server_cert is not readable.

status

`status`

The HSM SafeNet device status.

Type

String.

Valid values are:

- DOWN
- UP

Notes

The status cannot be updated.

status cannot be written.

hsm:thales : Thales Hardware Security Module.

Deprecated. You need to use Entrust nShield object instead. The Thales Hardware Security Module (HSM) structure represents the Thales HSM device configuration.

disable

`disable`

Determines whether the Thales HSM device is disabled.

Type

Bool.

Create

The default value is *False*.

keyhash

`keyhash`

The Thales HSM device public key digest.

Type

String.

Create

The default value is *empty*.

remote_esn

`remote_esn`

The Thales HSM device electronic serial number.

Type

String.

Notes

The remote_esn cannot be updated.

remote_esn cannot be written.

remote_ip

`remote_ip`

The IPv4 Address of the Thales HSM device.

Type

String.

Create

The field is required on creation.

remote_port

`remote_port`

The Thales HSM device destination port.

Type

Unsigned integer.

Create

The default value is *9004*.

status

`status`

The Thales HSM device status.

Type

String.

Valid values are:

- DOWN
- UP

Notes

The status cannot be updated.

status cannot be written.

hsm:thalesluna : Thales Luna Hardware Security Module.

The Harware Security Module (HSM) Thales Luna structure represents the HSM Thales Luna device configuration.

disable

`disable`

Determines whether the HSM Thales Luna device is disabled.

Type

Bool.

Create

The default value is *False*.

is_fips_compliant

`is_fips_compliant`

Determines whether the HSM Thales Luna device is FIPS compliant.

Type

Bool.

Notes

The is_fips_compliant cannot be updated.

is_fips_compliant cannot be written.

name

`name`

The HSM Thales Luna device IPv4 Address or FQDN.

Type

String.

Create

The field is required on creation.

partition_capacity

`partition_capacity`

The HSM Thales Luna device partition capacity percentage used.

Type

Unsigned integer.

Notes

The partition_capacity cannot be updated.

partition_capacity cannot be written.

partition_id

`partition_id`

Partition ID that is displayed after the appliance has successfully connected to the HSM Thales Luna device.

Type

String.

Notes

The partition_id cannot be updated.

partition_id cannot be written.

partition_serial_number

`partition_serial_number`

The HSM Thales Luna device partition serial number (PSN).

Type

String.

Create

The field is required on creation.

server_cert

`server_cert`

The token returned by the uploadinit function call in object fileop for a Thales Luna HSM device certificate.

Type

String.

Create

The default value is *undefined*.

Notes

server_cert is not readable.

status

`status`

The HSM Thales Luna device status.

Type

String.

Valid values are:

- DOWN
- UP

Notes

The status cannot be updated.

status cannot be written.

interface : IPv6/IPv4 interfaces settings.

The interface settings represent additional interface information that can be used for a Grid member. A single IP address may be added to each member by using these settings.

anycast

`anycast`

Determines if anycast for the Interface object is enabled or not.

Type

Bool.

Create

The default value is *False*.

comment

`comment`

A descriptive comment of this structure.

Type

String.

Create

The default value is *empty*.

enable_bgp

`enable_bgp`

Determines if the BGP advertisement setting is enabled for this interface or not.

Type

Bool.

Create

The default value is *False*.

enable_ospf

`enable_ospf`

Determines if the OSPF advertisement setting is enabled for this interface or not.

Type

Bool.

Create

The default value is *False*.

interface

`interface`

The interface type for the Interface object.

Type

String.

Valid values are:

- LAN2
- LAN_HA
- LOOPBACK
- MGMT

Create

The default value is *LOOPBACK*.

ipv4_network_setting

`ipv4_network_setting`

The IPv4 network settings of the Grid Member.

Type

A/An Network settings struct.

Create

You must create the IPv4 settings field if the IPv6 settings are missing.

ipv6_network_setting

`ipv6_network_setting`

The IPv6 network settings of the Grid Member.

Type

A/An IPv6 Settings struct.

Create

You must create the IPv6 settings field if the IPv4 settings are missing.

ipv6networksetting : IPv6 Network Settings.

Used for ipv6 static routes object.

address

`address`

IPv6 address.

Type

String.

Create

The default value is *undefined*.

cidr

`cidr`

IPv6 CIDR

Type

Unsigned integer.

Create

The default value is *undefined*.

gateway

`gateway`

Gateway address.

Type

String.

Create

The default value is *undefined*.

ipv6setting : IPv6 Settings.

The structure contains IPv6 settings for a member.

auto_router_config_enabled

`auto_router_config_enabled`

Determines if automatic router configuration should be enabled.

Type

Bool.

Create

The default value is *undefined*.

cidr_prefix

`cidr_prefix`

IPv6 cidr prefix

Type

Unsigned integer.

Create

The default value is *undefined*.

dscp

`dscp`

The DSCP (Differentiated Services Code Point) value determines relative priorities for the type of services on your network. The appliance implements QoS (Quality of Service) rules based on this configuration. Valid values are from 0 to 63.

Type

Unsigned integer.

Create

The default value is *0*.

Notes

dscp is associated with the field use_dscp (see use flag).

enabled

`enabled`

Determines if IPv6 networking should be enabled.

Type

Bool.

Create

The default value is *undefined*.

gateway

`gateway`

Gateway address.

Type

String.

Create

The default value is *undefined*.

primary

`primary`

Determines if the current address is the primary VLAN address or not.

Type

Bool.

Create

The default value is *True*.

use_dscp

`use_dscp`

Use flag for: dscp

Type

Bool.

Create

The default value is *False*.

virtual_ip

`virtual_ip`

IPv6 address.

Type

String.

Create

The default value is *undefined*.

vlan_id

`vlan_id`

The identifier for the VLAN. Valid values are from 1 to 4096.

Type

Unsigned integer.

Create

The default value is *empty*.

lan2portsetting : LAN2 Port Setting.

Settings used to configure IP parameters for the LAN2 port.

default_route_failover_enabled

`default_route_failover_enabled`

Default route failover for LAN1 and LAN2.

Type

Bool.

Create

The default value is *False*.

enabled

`enabled`

If this field is set to True, then it has its own IP settings. Otherwise, port redundancy mechanism is used, in which the LAN1 and LAN2 ports share the same IP settings for failover purposes.

Type

Bool.

Create

The default value is *False*.

network_setting

`network_setting`

If the ‘enable’ field is set to True, this defines IPv4 network settings for LAN2.

Type

A/An Network settings struct.

Create

The default value is:

```
{}
```

nic_failover_enable_primary

`nic_failover_enable_primary`

Prefer LAN1 when available.

Type

Bool.

Create

The default value is *False*.

nic_failover_enabled

`nic_failover_enabled`

Determines if NIC failover is enabled or not.

Type

Bool.

Create

The default value is *False*.

v6_network_setting

`v6_network_setting`

If the ‘enable’ field is set to True, this defines IPv6 network settings for the LAN2 port.

Type

A/An IPv6 Settings struct.

Create

The default value is:

```
{}
```

virtual_router_id

`virtual_router_id`

If the ‘enabled’ field is set to True, this defines the virtual router ID for the LAN2 port.

Type

Unsigned integer.

Create

The default value is *undefined*.

lanhaportsetting : LAN/HA Port Settings.

This structure contains LAN/HA port settings for the HA node.

ha_cloud_attribute

`ha_cloud_attribute`

HA cloud interface from cloud platform side.

Type

String.

Create

The default value is *UNK*.

ha_ip_address

`ha_ip_address`

HA IP address.

Type

String.

Create

The default value is *undefined*.

ha_port_setting

`ha_port_setting`

Physical port settings for the HA interface.

Type

A/An Physical Port Settings struct.

Create

The default value is *undefined*.

lan_port_setting

`lan_port_setting`

Physical port settings for the LAN interface.

Type

A/An Physical Port Settings struct.

Create

The default value is *undefined*.

mgmt_ipv6addr

`mgmt_ipv6addr`

Public IPv6 address for the LAN1 interface.

Type

String.

Create

The default value is *undefined*.

mgmt_lan

`mgmt_lan`

Public IPv4 address for the LAN1 interface.

Type

String.

Create

The default value is *undefined*.

Notes

The mgmt_lan is part of the base object.

ldap_eamapping : The LDAP extensible attribute mapping.

This structure is used to map LDAP fields to NIOS extensible attributes.

mapped_ea

mapped_ea

The name of the extensible attribute definition object to which the LDAP attribute is mapped.

Type

String.

Create

The field is required on creation.

name

name

The LDAP attribute name.

Type

String.

Create

The field is required on creation.

ldap_server : The LDAP server structure.

This structure is used for LDAP authentication configuration.

address

address

The IP address or FQDN of the LDAP server.

Type

String.

Create

The field is required on creation.

authentication_type

authentication_type

The authentication type for the LDAP server.

Type

String.

Valid values are:

- ANONYMOUS
- AUTHENTICATED

Create

The default value is *ANONYMOUS*.

base_dn

base_dn

The base DN for the LDAP server.

Type

String.

Create

The field is required on creation.

bind_password

`bind_password`

The user password for authentication.

Type

String.

Create

You must specify bind_password when authentication type is set to “AUTHENTICATED”.

Notes

bind_password is not readable.

bind_user_dn

`bind_user_dn`

The user DN for authentication.

Type

String.

Create

You must specify bind_user_dn when authentication type is set to “AUTHENTICATED”.

comment

`comment`

The LDAP descriptive comment.

Type

String.

Create

The default value is *undefined*.

disable

`disable`

Determines if the LDAP server is disabled.

Type

Bool.

Create

The default value is *False*.

encryption

`encryption`

The LDAP server encryption type.

Type

String.

Valid values are:

- NONE
- SSL

Create

The default value is *SSL*.

port

`port`

The LDAP server port.

Type

Unsigned integer.

Create

The default value is *636*.

use_mgmt_port

`use_mgmt_port`

Determines if the connection via the MGMT interface is allowed.

Type

Bool.

Create

The default value is *False*.

version

`version`

The LDAP server version.

Type

String.

Valid values are:

- V2
- V3

Create

The default value is *V3*.

logicfilterrule : Logic Filter rule.

This structure references defined DHCP filters.

filter

`filter`

The filter name.

Type

String.

Create

The field is required on creation.

type

`type`

The filter type. Valid values are:

- MAC
- NAC
- Option

Type

String.

Create

The field is required on creation.

lomnetworkconfig : The LOM network configuration structure.

Infoblox LOM is an implementation of the remote management and monitoring of Infoblox appliances that are LOM ready. The LOM network configuration structure is used to configure IPMI interface for the remote access.

address

`address`

The IPv4 Address of the Grid member.

Type

String.

Create

The default value is *empty*.

gateway

`gateway`

The default gateway for the Grid member.

Type

String.

Create

The default value is *empty*.

is_lom_capable

`is_lom_capable`

Determines if the physical node supports LOM or not.

Type

Bool.

Notes

The is_lom_capable cannot be updated.

is_lom_capable cannot be written.

subnet_mask

`subnet_mask`

The subnet mask for the Grid member.

Type

String.

Create

The default value is *empty*.

lomuser : The Lights Out Management (LOM) user.

Infoblox LOM is an implementation of the remote management and monitoring of Infoblox appliances that are LOM ready. The LOM user structure is used to configure LOM credentials as well as roles that specify allowed actions for the user.

comment

`comment`

The descriptive comment for the LOM user.

Type

String.

Create

The default value is *empty*.

disable

`disable`

Determines whether the LOM user is disabled.

Type

Bool.

Create

The default value is *False*.

name

name

The LOM user name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

password

password

The LOM user password.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Notes

The password cannot be updated.

password is not readable.

role

role

The LOM user role which specifies the list of actions that are allowed for the user.

Type

String.

Valid values are:

- OPERATOR
- USER

Create

The default value is *USER*.

member:cspmembersetting : CSP Member setting

Structure specify csp setting for member

csp_dns_resolver

csp_dns_resolver

IP address of DNS resolver in DFP

Type

String.

Create

The default value is *undefined*.

Notes

csp_dns_resolver is associated with the field use_csp_dns_resolver (see use flag).

csp_https_proxy

`csp_https_proxy`

HTTP Proxy URL used to access the CSP Portal

Type

String.

Create

The default value is *undefined*.

Notes

csp_https_proxy is associated with the field use_csp_https_proxy (see use flag).

csp_https_proxy_password

`csp_https_proxy_password`

HTTPS proxy password used to access the CSP Portal. This is write-only.

Type

String.

Create

The default value is *empty*.

Notes

csp_https_proxy_password is not readable.

csp_https_proxy_username

`csp_https_proxy_username`

HTTPS proxy username used to access the CSP Portal

Type

String.

Create

The default value is *empty*.

csp_join_token

`csp_join_token`

Join token required to connect to a cluster

Type

String.

Create

The default value is *empty*.

Notes

csp_join_token is associated with the field use_csp_join_token (see use flag).

use_csp_dns_resolver

`use_csp_dns_resolver`

Overrides CSP DNS Resolver

Type

Bool.

Create

The default value is *False*.

use_csp_https_proxy

`use_csp_https_proxy`

Overrides grid https proxy

Type

Bool.

Create

The default value is *False*.

use_csp_join_token

`use_csp_join_token`

Overrides grid join token

Type

Bool.

Create

The default value is *False*.

member:dnsgluerecordaddr : ‘Member DNS glue record address.

This structure holds information about interface which address the appliance uses to generate the glue record for each view.

attach_empty_recursive_view

`attach_empty_recursive_view`

Determines if empty view with recursion enabled will be written into the conf file.

Type

Bool.

Create

The default value is *False*.

glue_address_choice

`glue_address_choice`

The address choice for auto-created glue records for this view.

Type

String.

Valid values are:

- INTERFACE
- NAT
- OTHER

Create

The default value is *INTERFACE*.

glue_record_address

`glue_record_address`

The address the appliance uses to generate the glue record.

Type

String.

Create

The default value is *undefined*.

view

`view`

The name of the DNS View in which the record resides. Example: “external”.

Type

String.

Create

The field is required on creation.

member:dnsip : Member DNS additional IP structure.

The DNS IP structure is used to configure additional DNS-enabled interfaces for Grid member.

ip_address

`ip_address`

The additional IP address of the member.

Type

String.

Create

The field is required on creation.

member:ntp : The member Network Time Protocol (NTP) settings structure.

The member NTP settings structure is used to control the NTP synchronization of the date and time of the particular Infoblox appliance.

enable_external_ntp_servers

`enable_external_ntp_servers`

Determines whether the use of the external NTP servers is enabled for the member.

Type

Bool.

Create

The default value is *False*.

enable_ntp

`enable_ntp`

Determines whether the NTP service is enabled on the member.

Type

Bool.

Create

The default value is *False*.

exclude_grid_master_ntp_server

`exclude_grid_master_ntp_server`

Determines whether the Grid Master is excluded as an NTP server.

Type

Bool.

Create

The default value is *False*.

local_ntp_stratum

`local_ntp_stratum`

Vnode level local NTP stratum.

Type

Unsigned integer.

Create

The default value is *15*.

ntp_acl

`ntp_acl`

The NTP access control settings.

Type

A/An The Network Time Protocol (NTP) access control setting struct.

Create

The default value is:

```
{'ac_list': [], 'acl_type': 'NONE', 'service': 'TIME'}
```

Notes

ntp_acl is associated with the field use_ntp_acl (see use flag).

ntp_keys

`ntp_keys`

The list of NTP authentication keys used to authenticate NTP clients.

Type

A/An The Network Time Protocol (NTP) authentication key structure struct array.

Create

The default value is:

```
empty
```

Notes

ntp_keys is associated with the field use_ntp_keys (see use flag).

ntp_kod

`ntp_kod`

Determines whether the Kiss-o'-Death packets are enabled or disabled.

Type

Bool.

Create

The default value is *False*.

Notes

ntp_kod is associated with the field use_ntp_kod (see use flag).

ntp_servers

`ntp_servers`

The list of NTP servers configured on a member.

Type

A/An The Network Time Protocol (NTP) server structure struct array.

Create

The default value is:

```
empty
```

Notes

ntp_servers is associated with the field use_ntp_servers (see use flag).

use_default_stratum

use_default_stratum

Vnode level default stratum.

Type

Bool.

Create

The default value is *False*.

use_local_ntp_stratum

use_local_ntp_stratum

Override Grid level NTP stratum.

Type

Bool.

Create

The default value is *False*.

use_ntp_acl

use_ntp_acl

Use flag for: ntp_acl

Type

Bool.

Create

The default value is *False*.

use_ntp_keys

use_ntp_keys

Use flag for: ntp_keys

Type

Bool.

Create

The default value is *False*.

use_ntp_kod

use_ntp_kod

Use flag for: ntp_kod

Type

Bool.

Create

The default value is *False*.

use_ntp_servers

`use_ntp_servers`

Use flag for: ntp_servers

Type

Bool.

Create

The default value is *False*.

member:pnodetoken : Physical Node Token.

This structure contains information required for a physical node to join the Grid using a one-time token.

physical_oid

`physical_oid`

OID of the physical node.

Type

String.

Notes

The physical_oid cannot be updated.

physical_oid cannot be written.

token

`token`

Identifier that should be used by the physical node to join the Grid.

Type

String.

Notes

The token cannot be updated.

token cannot be written.

token_exp_date

`token_exp_date`

Time when the token expires.

Type

Timestamp.

Notes

The token_exp_date cannot be updated.

token_exp_date cannot be written.

memberserver : Member Server.

This struct represents a Grid member.

enable_preferred_primaries

`enable_preferred_primaries`

This flag represents whether the preferred_primaries field values of this member are used.

Type

Bool.

Create

The default value is *False*.

grid_replicate

`grid_replicate`

The flag represents DNS zone transfers if set to False, and ID Grid Replication if set to True.

This flag is ignored if the struct is specified as part of a stub zone or if it is set as grid_member in an authoritative zone.

Type

Bool.

Create

The default value is *True*.

lead

`lead`

This flag controls whether the Grid lead secondary server performs zone transfers to non lead secondaries.

This flag is ignored if the struct is specified as grid_member in an authoritative zone.

Type

Bool.

Create

The default value is *False*.

name

`name`

The grid member name.

Type

String.

Create

The field is required on creation.

preferred_primaries

`preferred_primaries`

The primary preference list with Grid member names andor External Server structs for this member.

Type

A/An External Server struct array.

Create

The default value is:

```
False
```

stealth

`stealth`

This flag governs whether the specified Grid member is in stealth mode or not. If set to True, the member is in stealth mode.

This flag is ignored if the struct is specified as part of a stub zone.

Type

Bool.

Create

The default value is *False*.

memberservicecommunication : Member Service Communication.

The structure contains service type communication options for a Grid member.

option

`option`

The option for communication type.

Type

String.

Valid values are:

- FORCE
- PREFER

Notes

The option is part of the base object.

The option cannot be updated.

option cannot be written.

service

`service`

The service for a Grid member.

Type

String.

Valid values are:

- AD
- GRID
- GRID_BACKUP
- MAIL
- NTP
- OCSP
- REPORTING
- REPORTING_BACKUP

Create

The default value is *undefined*.

type

`type`

Communication type.

Type

String.

Valid values are:

- IPV4
- IPV6

Create

The default value is *undefined*.

memberservicestatus : Member Service Status.

This structure contains a service status of the Grid Member.

description

`description`

The description of the current service status.

Type

String.

Notes

The description cannot be updated.

description cannot be written.

service

service

The service identifier.

Type

String.

Valid values are:

- ANALYTICS
- ATP
- CAPTIVE_PORTAL
- CLOUD_API
- CLOUD_DNS_SYNC
- DFP
- DHCP
- DISCOVERY
- DNS
- DNS_CACHE_ACCELERATION
- DOT_DOH
- FTP
- HSM
- HTTP_FILE_DIST
- IMC
- IMC_DCA_BWL
- NTP
- REPORTING
- TAXII
- TFTP

Notes

The service cannot be updated.

service cannot be written.

status

status

The service status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- OFFLINE
- UNKNOWN
- WARNING
- WORKING

Notes

The status cannot be updated.

status cannot be written.

mgmtportsetting : MGMT Port Setting.

The structure that defines whether the MGMT port settings must be used.

enabled

enabled

Determines if MGMT port settings should be enabled.

Type

Bool.

Create

The default value is *False*.

security_access_enabled

`security_access_enabled`

Determines if security access on the MGMT port is enabled or not.

Type

Bool.

Create

The default value is *False*.

vpn_enabled

`vpn_enabled`

Determines if VPN on the MGMT port is enabled or not.

Type

Bool.

Create

The default value is *False*.

monitoreddomains : Monitored domains.

This structure contains list of domains monitored by Recursive DNS latency trigger.

domain_name

`domain_name`

Domain name (FQDN to Query).

Type

String.

Create

The default value is *empty*.

record_type

`record_type`

Record type(record to query).

Type

String.

Create

The default value is *empty*.

msdhcpoption : Microsoft DHCP Options.

An option sets the value of a DHCP option that has been defined in an option space. DHCP options describe network configuration settings and various services available on the network. These options occur as variable-length fields at the end of DHCP messages.

When defining a DHCP option, at least a ‘name’ or a ‘num’ is required.

name

`name`

The name of the DHCP option.

Type

String.

Create

The default value is *empty*.

num

`num`

The code of the DHCP option.

Type

Unsigned integer.

Create

The field is required on creation.

type

`type`

The DHCP option type. Valid values are:

- “16-bit signed integer”
- “16-bit unsigned integer”
- “32-bit signed integer”
- “32-bit unsigned integer”
- “64-bit unsigned integer”
- “8-bit signed integer”
- “8-bit unsigned integer (1,2,4,8)”
- “8-bit unsigned integer”
- “array of 16-bit integer”
- “array of 16-bit unsigned integer”
- “array of 32-bit integer”
- “array of 32-bit unsigned integer”
- “array of 64-bit unsigned integer”
- “array of 8-bit integer”
- “array of 8-bit unsigned integer”
- “array of ip-address pair”
- “array of ip-address”
- “array of string”
- “binary”
- “boolean array of ip-address”
- “boolean”
- “boolean-text”
- “domain-list”

"domain-name"
- "encapsulated"
- "ip-address"
- "string"
- "text"

Type

String.

Notes

The type cannot be updated.

type cannot be written.

user_class

`user_class`

The name of the user class with which this DHCP option is associated.

Type

String.

Create

The default value is *Default User Class*.

value

`value`

Value of the DHCP option.

Type

String.

Create

The field is required on creation.

vendor_class

`vendor_class`

The name of the vendor class with which this DHCP option is associated.

Type

String.

Create

The default value is *DHCP Standard Options*.

msdhcpserver : MS DHCP server.

This struct contains the name and address of the Microsoft(r) DHCP server.

address

`address`

The IPv4 Address or IPv6 Address or FQDN of the Microsoft server.

Type

String.

Create

The field is required on creation.

ipv4addr

`ipv4addr`

The IPv4 Address of the Microsoft server.

Type

String.

Notes

The ipv4addr cannot be updated.

ipv4addr cannot be written.

ipv6addr

`ipv6addr`

The IPv6 Address of the Microsoft server.

Type

String.

Notes

The ipv6addr cannot be updated.

ipv6addr cannot be written.

name

`name`

The name of the Microsoft server.

Type

String.

Notes

The name cannot be updated.

name cannot be written.

msdnsserver : Msserver Server.

This struct represents a Microsoft DNS server.

address

`address`

The address of the server.

Type

String.

Create

The field is required on creation.

Notes

The address is part of the base object.

is_master

`is_master`

This flag indicates if this server is a synchronization master.

Type

Bool.

Create

The default value is *False*.

ns_ip

`ns_ip`

This address is used when generating the NS record in the zone, which can be different in case of multihomed hosts.

Type

String.

Create

The field is required on creation.

Notes

The ns_ip is part of the base object.

ns_name

`ns_name`

This name is used when generating the NS record in the zone, which can be different in case of multihomed hosts.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Notes

The ns_name is part of the base object.

shared_with_ms_parent_delegation

`shared_with_ms_parent_delegation`

This flag represents whether the name server is shared with the parent Microsoft primary zone's

delegation server.

Type

Bool.

Notes

The shared_with_ms_parent_delegation cannot be updated.

shared_with_ms_parent_delegation cannot be written.

stealth

`stealth`

Set this flag to hide the NS record for the primary name server from DNS queries.

Type

Bool.

Create

The default value is *False*.

msserver:aduser : Microsoft Server AD user.

This structure contains information about the Microsoft Server Active Directory user synchronization.

enable_user_sync

`enable_user_sync`

Determines whether the Active Directory user synchronization is enabled or not.

Type

Bool.

Create

The default value is *False*.

Notes

enable_user_sync is associated with the field use_enable_user_sync (see use flag).

last_success_sync_time

`last_success_sync_time`

Timestamp of the last successful synchronization attempt.

Type

Timestamp.

Notes

The last_success_sync_time cannot be updated.

last_success_sync_time cannot be written.

last_sync_detail

`last_sync_detail`

The detailed status of the last synchronization attempt.

Type

String.

Notes

The last_sync_detail cannot be updated.

last_sync_detail cannot be written.

last_sync_status

`last_sync_status`

The status of the last synchronization attempt.

Type

String.

Notes

The last_sync_status cannot be updated.

last_sync_status cannot be written.

last_sync_time

`last_sync_time`

Timestamp of the last synchronization attempt.

Type

Timestamp.

Notes

The last_sync_time cannot be updated.

last_sync_time cannot be written.

login_name

`login_name`

The login name of the Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Notes

login_name is associated with the field use_login (see use flag).

login_password

`login_password`

The login password of the DHCP Microsoft Server.

Type

String.

Create

The default value is *undefined*.

Notes

login_password is associated with the field use_login (see use flag).

login_password is not readable.

synchronization_interval

`synchronization_interval`

The minimum number of minutes between two synchronizations.

Type

Unsigned integer.

Create

The default value is *2*.

Notes

synchronization_interval is associated with the field use_synchronization_interval (see use flag).

use_enable_ad_user_sync

`use_enable_ad_user_sync`

Flag to override AD User sync from grid level

Type

Bool.

Create

The default value is *False*.

use_enable_user_sync

`use_enable_user_sync`

Use flag for: enable_user_sync

Type

Bool.

Create

The default value is *False*.

use_login

`use_login`

Flag to override login name and password from MS server

Type

Bool.

Create

The default value is *False*.

use_synchronization_interval

`use_synchronization_interval`

Use flag for: synchronization_interval

Type

Bool.

Create

The default value is *False*.

use_synchronization_min_delay

`use_synchronization_min_delay`

Flag to override synchronization interval from the MS Server

Type

Bool.

Create

The default value is *False*.

msserver:aduser:data : Active Directory User Data.

This struct contains information about the Active Directory users.

active_users_count

`active_users_count`

The number of active users.

Type

Unsigned integer.

Notes

The active_users_count cannot be updated.

active_users_count cannot be written.

msserver:dcnsrecordcreation : An Infoblox Active Directory Domain Controller object.

The Active Directory Domain Controller object represents the Active Directory domain controller that is allowed to create NS records for authoritative zones.

address

`address`

The IPv4 address of the domain controller that is allowed to create NS records.

Type

String.

Create

The field is required on creation.

comment

`comment`

Optional user comment.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

natsetting : NAT Settings.

The structure contains NAT settings for a member.

enabled

`enabled`

Determines if NAT should be enabled.

Type

Bool.

Create

The default value is *undefined*.

external_virtual_ip

`external_virtual_ip`

External IP address for NAT.

Type

String.

Create

The default value is *undefined*.

group

`group`

The NAT group.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

networkview:assocmember : Network View Associated Members structure.

The Network View Associated Members structure provides information about members associated with a particular Network View.

failovers

`failovers`

The list of failover objects associated with each member.

Type

String array.

Notes

The failovers cannot be updated.

failovers cannot be written.

member

`member`

The member object associated with a network view.

Type

String.

Notes

The member cannot be updated.

member cannot be written.

nodeinfo : Node Info.

This structure contains a detailed status report about Grid member operations.

ha_status

`ha_status`

Status about the node of an HA pair.

Type

String.

Valid values are:

- ACTIVE
- NOT_CONFIGURED
- PASSIVE

Notes

The ha_status cannot be updated.

ha_status cannot be written.

host_platform

`host_platform`

Host Platform

Type

String.

Notes

The host_platform cannot be updated.

host_platform cannot be written.

hwid

`hwid`

Hardware ID.

Type

String.

Notes

The hwid cannot be updated.

hwid cannot be written.

hwmodel

`hwmodel`

Hardware model.

Type

String.

Notes

The hwmodel cannot be updated.

hwmodel cannot be written.

hwtype

`hwtype`

Hardware type.

Type

String.

Notes

The hwtype cannot be updated.

hwtype cannot be written.

hypervisor

`hypervisor`

Hypervisor

Type

String.

Notes

The hypervisor cannot be updated.

hypervisor cannot be written.

lan2_physical_setting

`lan2_physical_setting`

Physical port settings for the LAN2 interface.

Type

A/An Physical Port Settings struct.

Create

The default value is *undefined*.

lan_ha_port_setting

`lan_ha_port_setting`

LAN/HA port settings for the node.

Type

A/An LAN/HA Port Settings struct.

Create

The default value is *undefined*.

mgmt_network_setting

`mgmt_network_setting`

Network settings for the MGMT port of the node.

Type

A/An Network settings struct.

Create

The default value is *undefined*.

mgmt_physical_setting

`mgmt_physical_setting`

Physical port settings for the MGMT interface.

Type

A/An Physical Port Settings struct.

Create

The default value is *undefined*.

nat_external_ip

`nat_external_ip`

The NAT external IP address for the node.

Type

String.

Create

The default value is *empty*.

paid_nios

`paid_nios`

True if node is Paid NIOS.

Type

Bool.

Notes

The paid_nios cannot be updated.

paid_nios cannot be written.

physical_oid

`physical_oid`

The OID of the physical node.

Type

String.

Notes

The physical_oid cannot be updated.

physical_oid cannot be written.

service_status

`service_status`

The service status list of the Grid Member.

Type

A/An Node Service Status struct array.

Notes

The service_status cannot be updated.

service_status cannot be written.

v6_mgmt_network_setting

`v6_mgmt_network_setting`

The network settings for the IPv6 MGMT port of the node.

Type

A/An IPv6 Settings struct.

Create

The default value is *undefined*.

notification:rest:templateinstance : Notification REST template instance.

This structure holds information about a notification REST template instance.

parameters

`parameters`

The notification REST template parameters.

Type

A/An Notification REST template parameter struct array.

Create

The default value is *undefined*.

template

`template`

The name of the REST API template parameter.

Type

String.

Create

The field is required on creation.

notification:rest:templateparameter : Notification REST template parameter.

This structure holds information about a notification REST template parameter.

default_value

`default_value`

The default value of the REST API template parameter.

Type

String.

Notes

The default_value cannot be updated.

default_value cannot be written.

name

name

The name of the REST API template parameter.

Type

String.

Create

The field is required on creation.

syntax

syntax

The syntax of the REST API template parameter.

Type

String.

Valid values are:

- BOOL
- INT
- STR

Create

The field is required on creation.

value

value

The value of the REST API template parameter.

Type

String.

Create

The default value is *undefined*.

notification:ruleexpressionop : Notification rule expression operand.

The notification rule expression operand is used to build rule expression lists for specific notification rules to take a specific action accordingly to the notification rule configuration if the rule expression evaluates to True.

op

op

Rule expression type.

Type

String.

Valid values are:

- AND
- CONTAINED_IN
- ENDLIST
- EQ

- EXISTS
- GE
- GT
- LE
- LT
- MATCH_CIDR
- MATCH_RANGE
- NOT_EQ
- NOT_EXISTS
- NREGEX
- OR
- REGEX

Create

The field is required on creation.

op1

op1

Rule expression first operand value.

Type

String.

Valid values are:

- ADDRESS_TYPE
- ATC_HIT_CLASS
- ATC_HIT_PROPERTY
- ATC_HIT_TYPE
- AUTO_CREATED_RECORDS
- DB_CHANGE_GROUP_NAME
- DB_CHANGE_USER_NAME
- DHCP_FINGERPRINT
- DHCP_IP_ADDRESS
- DHCP_LEASE_STATE
- DISABLE
- DISCOVERER
- DNS_RPZ_ACTION_POLICY
- DNS_RPZ_NAME
- DNS_RPZ_RULE_NAME
- DNS_RPZ_TYPE
- DNS_VIEW
- DUID
- DXL_TOPIC
- HOST
- IPV4_ADDRESS
- IPV6_ADDRESS
- IPV6_PREFIX
- IPV6_PREFIX_BITS
- IP_ADDRESS
- IS_IPV4
- MAC
- MEMBER_IP
- MEMBER_NAME
- NAME
- NETWORK
- NETWORK_VIEW
- OPERATION_TYPE
- QUERY_FQDN
- RECORD_NAME
- RECORD_TYPE
- SECURITY_ADP_HITS_COUNT
- SECURITY_ADP_RULE_ACTION
- SECURITY_ADP_RULE_CATEGORY
- SECURITY_ADP_RULE_MESSAGE

- SECURITY_ADP_RULE_SEVERITY
- SECURITY_ADP_SID
- SERVER_ASSOC_TYPE_IPV4
- SERVER_ASSOC_TYPE_IPV6
- SOURCE_IP
- THREAT_ORIGIN
- UNMANAGED
- ZONE_NAME
- ZONE_TYPE

Create

The default value is *undefined*.

op1_type

`op1_type`

Rule expression first operand type.

Type

String.

Valid values are:
- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

op2

`op2`

Rule expression second operand.

Type

String.

Create

The default value is *undefined*.

op2_type

`op2_type`

Rule expression second operand type.

Type

String.

Valid values are:
- FIELD
- LIST
- STRING

Create

The default value is *undefined*.

ntpac : The Network Time Protocol (NTP) access

control item structure.

The NTP access control item specifies clients that have permissions to access the NTP service.

address_ac

address_ac

The client address/network with access control.

Type

A/An Address ac struct.

Create

The field is required on creation.

service

service

The type of service with access control.

Type

String.

Valid values are:

- TIME
- TIME_AND_NTPQ

Create

The default value is *TIME*.

ntpaccess : The Network Time Protocol (NTP) access control setting.

The NTP access control setting specifies either a named ACL or the list of clients that have permissions to access the NTP service.

ac_list

ac_list

The list of NTP access control items.

Type

A/An The Network Time Protocol (NTP) access control item structure struct array.

Create

The default value is:

```
empty
```

acl_type

acl_type

The NTP access control list type.

Type

String.

Valid values are:

- LIST
- NAMED_ACL
- NONE

Create

The default value is *NONE*.

named_acl

`named_acl`

The NTP access named ACL.

Type

String.

Create

The default value is *empty*.

service

`service`

The type of service with access control for the assigned named ACL.

Type

String.

Valid values are:

- TIME
- TIME_AND_NTPQ

Create

The default value is *TIME*.

ntpkey : The Network Time Protocol (NTP) authentication key structure.

The NTP authentication key is used by NTP servers to authenticate clients.

number

`number`

The NTP authentication key identifier.

Type

Unsigned integer.

Create

The field is required on creation.

string

string

The NTP authentication key string.

Type

String.

Create

The field is required on creation.

type

type

The NTP authentication key type.

Type

String.

Valid values are:

- DES_ASCII
- DES_HEX
- DES_NTP
- MD5_ASCII
- SHA-224_HEX
- SHA-256_HEX
- SHA-384_HEX
- SHA-512_HEX
- SHA1_ASCII

Create

The field is required on creation.

ntpserver : The Network Time Protocol (NTP) server structure.

The NTP server structure is used to synchronize the date and time for the Infoblox appliance.

address

address

The NTP server IP address or FQDN.

Type

String.

Create

The field is required on creation.

burst

burst

Determines whether the BURST operation mode is enabled. In BURST operating mode, when the external server is reachable and a valid source of synchronization is available, NTP sends a burst of 8 packets with a 2 second interval between packets.

Type

Bool.

Create

The default value is *True*.

enable_authentication

`enable_authentication`

Determines whether the NTP authentication is enabled.

Type

Bool.

Create

The default value is *False*.

iburst

`iburst`

Determines whether the IBURST operation mode is enabled. In IBURST operating mode, when the external server is unreachable, NTP server sends a burst of 8 packets with a 2 second interval between packets.

Type

Bool.

Create

The default value is *True*.

ntp_key_number

`ntp_key_number`

The NTP authentication key number.

Type

Unsigned integer.

Create

The default value is *empty*.

preferred

`preferred`

Determines whether the NTP server is a preferred one or not.

Type

Bool.

Create

The default value is *False*.

nxdomainrule : Rule of Ruleset.

Represents a rule that is used to match a domain name.

action

`action`

The action to perform when a domain name matches the pattern defined in this Ruleset.

Type

String.

Valid values are:

- MODIFY
- PASS
- REDIRECT

Create

The default value is *PASS*.

pattern

`pattern`

The pattern that is used to match the domain name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

objectschangestrackingsetting : Objects changes tracking setting.

The objects changes tracking setting structure is used to enable or disable the object changes tracking feature and to display the objects changes state.

enable

`enable`

Determines whether the objects changes tracking feature is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_completion

`enable_completion`

Determines the percentage of completion for objects changes tracking.

Type

Unsigned integer.

Notes

The enable_completion cannot be updated.

enable_completion cannot be written.

max_objs_to_track

`max_objs_to_track`

Maximum number of deleted objects retained for tracking. You can enter a value from 2000 - 20000.

Type

Unsigned integer.

Create

The default value is *4000*.

max_time_to_track

`max_time_to_track`

Maximum time period in seconds to track the deleted objects changes. You can enter a value from 7200 - 604800 seconds.

Type

Unsigned integer.

Create

The default value is *14400*.

state

`state`

Determines the objects changes tracking enable state.

Type

String.

Valid values are:

- DISABLED
- ENABLED
- ENABLING
- ENABLING_ERROR

Notes

The state cannot be updated.

state cannot be written.

ocsp_responder : OCSP Responder.

This struct provides configuration for OCSP Responder.

certificate

`certificate`

The reference to the OCSP responder certificate.

Type

String.

This field supports nested return fields as described here.

Notes

The certificate cannot be updated.

certificate cannot be written.

certificate_token

certificate_token

The token returned by the uploadinit function call in object fileop.

Type

String.

Create

The default value is *undefined*.

Notes

certificate_token is not readable.

comment

comment

The descriptive comment for the OCSP authentication responder.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

disabled

disabled

Determines if this OCSP authentication responder is disabled.

Type

Bool.

Create

The default value is *undefined*.

fqdn_or_ip

fqdn_or_ip

The FQDN (Fully Qualified Domain Name) or IP address of the server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

port

`port`

The port used for connecting.

Type

Unsigned integer.

Create

The default value is *undefined*.

option60matchrule : Option 60 Match Rule.

An Option 60 Match Rule structure allows specifying match rules for Option 60 globally.

is_substring

`is_substring`

Determines if the match value is a substring.

Type

Bool.

Create

The default value is *False*.

match_value

`match_value`

The match value for this DHCP Option 60 match rule.

Type

String.

Create

The field is required on creation.

option_space

`option_space`

The option space for this DHCP Option 60 match rule.

Type

String.

Create

The field is required on creation.

substring_length

substring_length

The length of match value for this DHCP Option 60 match rule.

Type

Unsigned integer.

Create

The default value is *empty*.

substring_offset

substring_offset

The offset of match value for this DHCP Option 60 match rule.

Type

Unsigned integer.

Create

The default value is *0*.

ospf : OSPF Settings.

Settings are used to configure OSPF parameters for the member.

advertise_interface_vlan

advertise_interface_vlan

The VLAN used as the advertising interface for sending OSPF announcements.

Type

String.

Create

Advertise VLAN setting is required when the interface is set to “IP”.

area_id

area_id

The area ID value of the OSPF settings.

Type

String.

Create

The field is required on creation.

area_type

area_type

The OSPF area type.

Type

String.

Valid values are:

- NSSA
- STANDARD
- STUB

Create

The default value is *STANDARD*.

authentication_key

`authentication_key`

The authentication password to use for OSPF. The authentication key is valid only when authentication type is “SIMPLE” or “MESSAGE_DIGEST”.

Type

String.

Create

An authentication key is required unless the authentication type is set to “NONE”.

Notes

The authentication_key cannot be updated.

authentication_key is not readable.

authentication_type

`authentication_type`

The authentication type used for the OSPF advertisement.

Type

String.

Valid values are:

- MESSAGE_DIGEST
- NONE
- SIMPLE

Create

The field is required on creation.

auto_calc_cost_enabled

`auto_calc_cost_enabled`

Determines if auto calculate cost is enabled or not.

Type

Bool.

Create

The field is required on creation.

bfd_template

`bfd_template`

Determines BFD template name.

Type

String.

Create

The default value is *empty*.

comment

`comment`

A descriptive comment of the OSPF configuration.

Type

String.

Create

The default value is *Empty string*.

cost

`cost`

The cost metric associated with the OSPF advertisement.

Type

Unsigned integer.

Create

A cost is required if auto_calc_cost_enabled is set to “false”.

dead_interval

`dead_interval`

The dead interval value of OSPF (in seconds). The dead interval describes the time to wait before declaring the device is unavailable and down.

Type

Unsigned integer.

Create

The default value is *40*.

enable_bfd

`enable_bfd`

Determines if the BFD is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_bfd_dnscheck

`enable_bfd_dnscheck`

Determines if BFD internal DNS monitor is enabled or not.

Type

Bool.

Create

The default value is *True*.

hello_interval

`hello_interval`

The hello interval value of OSPF. The hello interval specifies how often to send OSPF hello advertisement, in seconds.

Type

Unsigned integer.

Create

The default value is *10*.

interface

`interface`

The interface that sends out OSPF advertisement information.

Type

String.

Valid values are:

- IP
- LAN_HA

Create

The field is required on creation.

is_ipv4

`is_ipv4`

The OSPF protocol version. Specify “true” if the IPv4 version of OSPF is used, or “false” if the IPv6 version of OSPF is used.

Type

Bool.

Create

The field is required on creation.

key_id

`key_id`

The hash key identifier to use for “MESSAGE_DIGEST” authentication. The hash key identifier is valid only when authentication type is “MESSAGE_DIGEST”.

Type

Unsigned integer.

Create

The default value is *1*.

retransmit_interval

`retransmit_interval`

The retransmit interval time of OSPF (in seconds). The retransmit interval describes the time to wait before retransmitting OSPF advertisement.

Type

Unsigned integer.

Create

The default value is *5*.

transmit_delay

`transmit_delay`

The transmit delay value of OSPF (in seconds). The transmit delay describes the time to wait before sending an advertisement.

Type

Unsigned integer.

Create

The default value is *1*.

outbound:cloudclient:event : Outbound cloudclient event type

enabled

`enabled`

Determines if the event type is enabled or not.

Type

Bool.

Create

The default value is *False*.

Notes

The enabled cannot be updated.

event_type

`event_type`

The event type enum rpz and analytics.

Type

String.

Valid values are:

- ANALYTIC
- RPZ

Create

The field is required on creation.

Notes

The event_type cannot be updated.

parentalcontrol:abs : Parental control additional blocking server(ABS).

The parental control settings for additional blocking server.

blocking_policy

`blocking_policy`

The blocking policy for the additional blocking server.

Type

String.

Create

The field is required on creation.

ip_address

`ip_address`

The IP address of additional blocking server.

Type

String.

Create

The field is required on creation.

parentalcontrol:msp : Parental control managed service provider (MSP) service.

The parental control settings for MSP.

ip_address

`ip_address`

The IP Address of MSP.

Type

String.

Create

The field is required on creation.

parentalcontrol:nasgateway : NAS gateway mobile security settings.

The parental control network accounting server (NAS) gateway object provides configuration for transmission of authentication protocol accounting information to the NIOS accounting collector.

comment

`comment`

The human readable comment for NAS gateway.

Type

String.

Create

The default value is *undefined*.

ip_address

`ip_address`

The IP address of NAS gateway.

Type

String.

Create

The field is required on creation.

message_rate

`message_rate`

The message rate per server.

Type

Unsigned integer.

Notes

The message_rate cannot be updated.

message_rate cannot be written.

name

`name`

The name of NAS gateway.

Type

String.

Create

The field is required on creation.

send_ack

send_ack

Determines whether an acknowledge needs to be sent.

Type

Bool.

Create

The default value is *undefined*.

shared_secret

shared_secret

The protocol MD5 phrase.

Type

String.

Create

The field is required on creation.

Notes

shared_secret is not readable.

parentalcontrol:siteapimember : Site member parental control settings.

The parental control site API member structure associates particular Grid member with it's role in process of collecting and consuming subscriber information from external gRPC client.

name

name

The Grid member name.

Type

String.

Create

The field is required on creation.

parentalcontrol:sitemember : Site member parental control settings.

The parental control site member structure associates particular Grid member with it's role in process of collecting and consuming the authentication information and the parental control site the feature is deployed on.

name

name

The Grid member name.

Type

String.

Create

The field is required on creation.

type

`type`

The type of member.

Type

String.

Valid values are:

- BOTH
- CLIENT
- COLLECTOR
- NONE

Notes

The type cannot be updated.

type cannot be written.

parentalcontrol:spm : Parental control policy management service (SPM).

The parental control settings for SPM.

ip_address

`ip_address`

The IP Address of SPM.

Type

String.

Create

The field is required on creation.

physicalportsetting : Physical Port Settings.

This structure contains settings for an appliance physical port.

auto_port_setting_enabled

`auto_port_setting_enabled`

Enable or disable the auto port setting.

Type

Bool.

Create

The default value is *undefined*.

duplex

`duplex`

The port duplex; if speed is 1000, duplex must be FULL.

Type

String.

Valid values are:

- FULL
- HALF

Create

The default value is *undefined*.

speed

`speed`

The port speed; if speed is 1000, duplex is FULL.

Type

String.

Valid values are:

- 10
- 100
- 1000

Create

The default value is *undefined*.

preprovision : Pre-provisioning Settings.

The structure contains pre-provisioning settings.

hardware_info

`hardware_info`

An array of structures that describe the hardware being pre-provisioned.

Type

A/An Pre-provisioning Hardware Settings struct array.

Create

The field is required on creation.

licenses

`licenses`

An array of license types the pre-provisioned member should have in order to join the Grid, or the licenses that must be allocated to the member when it joins the Grid using the token-based authentication.

Type

Enum values array.

Valid values are:

- cloud_api
- dhcp
- dns
- dtc
- enterprise
- fireeye
- ms_management
- nios
- rpz
- sw_tp
- tp_sub
- vnios

Create

The field is required on creation.

preprovisionhardware : Pre-provisioning Hardware Settings.

The structure contains hardware information for a pre-provisioned member.

hwtype

`hwtype`

Hardware type.

`Type`

String.

Valid values are:

- CP-V1405
- CP-V2205
- CP-V805
- IB-1415
- IB-1425
- IB-1516
- IB-1526
- IB-2215
- IB-2225
- IB-2326
- IB-4015
- IB-4025
- IB-4126
- IB-815
- IB-825
- IB-926
- IB-FLEX
- IB-FLEX-HW
- IB-V1415
- IB-V1425
- IB-V1516
- IB-V1526
- IB-V2215
- IB-V2225
- IB-V2326
- IB-V4015
- IB-V4025
- IB-V4126
- IB-V815
- IB-V825
- IB-V926

Create

The field is required on creation.

properties:blackoutsetting : Blackout Setting.

This struct contains information about blackout settings.

blackout_duration

`blackout_duration`

The blackout duration in seconds; minimum value is 1 minute.

Type

Unsigned integer.

Create

The default value is *empty*.

blackout_schedule

`blackout_schedule`

A Schedule Setting struct that determines blackout schedule.

Type

A/An Schedule Setting struct.

Create

The default value is *undefined*.

enable_blackout

`enable_blackout`

Determines whether a blackout is enabled or not.

Type

Bool.

Create

The field is required on creation.

queriesuser : Queries user.

This structure contains information about the SNMPv3 queries user.

comment

`comment`

A descriptive comment for this queries user.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

user

`user`

The SNMPv3 user.

Type

String.

Create

The default value is *empty*.

radius:server : The RADIUS authentication server structure.

This structure is used for RADIUS authentication configuration.

acct_port

`acct_port`

The accounting port.

Type

Unsigned integer.

Create

The default value is *The default value is 1813 if use_accounting is set to False*.

address

`address`

The FQDN or the IP address of the RADIUS server that is used for authentication.

Type

String.

Create

The field is required on creation.

auth_port

`auth_port`

The authorization port.

Type

Unsigned integer.

Create

The default value is *The default value is 1812 if use_accounting is set to True*.

auth_type

auth_type

The authentication protocol.

Type

String.

Valid values are:

- CHAP
- PAP

Create

The default value is *PAP*.

comment

comment

The RADIUS descriptive comment.

Type

String.

Create

The default value is *undefined*.

disable

disable

Determines whether the RADIUS server is disabled.

Type

Bool.

Create

The default value is *False*.

shared_secret

shared_secret

The shared secret that the NIOS appliance and the RADIUS server use to encrypt and decrypt their messages.

Type

String.

Create

The field is required on creation.

Notes

shared_secret is not readable.

use_accounting

use_accounting

Determines whether RADIUS accounting is enabled.

Type

Bool.

Create

The default value is *True*.

use_mgmt_port

`use_mgmt_port`

Determines whether connection via the management interface is allowed.

Type

Bool.

Create

The default value is *False*.

rdatasubfield : Unknown Record Rdata subfield value.

field_type

`field_type`

Type of field. “B”: unsigned 8-bit integer, “S”: unsigned 16-bit integer, “I”: unsigned 32-bit integer. “H”: BASE64, “6”: an IPv6 address, “4”: an IPv4 address, “N”: a domain name, “T”: text string, “X”: opaque binary data

Type

String.

Create

The field is required on creation.

field_value

`field_value`

String representation of subfield value.

Type

String.

Create

The field is required on creation.

include_length

`include_length`

The ‘size of ‘length’ sub-sub field to be included in RDATA.

Type

String.

Valid values are:

- 16_BIT
- 8_BIT
- NONE

Create

The field is required on creation.

remoteddnszone : Remote DDNS Zone structure.

The Remote DDNS Zone structure provides information about the remote DDNS zone associated with a particular object.

fqdn

`fqdn`

The FQDN of the remote server.

Type

String.

Create

The field is required on creation.

gss_tsig_dns_principal

`gss_tsig_dns_principal`

The principal name in which GSS-TSIG for dynamic updates is enabled.

Type

String.

Create

The default value is *empty*.

gss_tsig_domain

`gss_tsig_domain`

The domain in which GSS-TSIG for dynamic updates is enabled.

Type

String.

Create

The default value is *empty*.

key_type

`key_type`

The key type to be used.

Type

String.

Valid values are:

- GSS-TSIG
- NONE
- TSIG

Create

The default value is *NONE*.

server_address

`server_address`

The remote server IP address.

Type

String.

Create

The field is required on creation.

tsig_key

`tsig_key`

The TSIG key value.

Type

String.

Create

The default value is *empty*.

tsig_key_alg

`tsig_key_alg`

The TSIG key algorithm name.

Type

String.

Valid values are:

- HMAC-MD5
- HMAC-SHA256

Create

The default value is *empty*.

tsig_key_name

`tsig_key_name`

The name of the TSIG key. The key name entered here must match the TSIG key name on the external name server.

Type

String.

Create

The default value is *empty*.

rrpreconditioninstructions : Structure for DNS RR pre-condition instructions.

action

`action`

Action to perform if condition is met: none or delete.

Type

String.

Valid values are:

- delete
- none

Create

The field is required on creation.

condition

`condition`

Condition type: exist or notexist.

Type

String.

Valid values are:

- exist
- notexist

Create

The field is required on creation.

name

`name`

Record name

Type

String.

Create

The field is required on creation.

rdata

`rdata`

Record data (optional)

Type

String.

Create

The default value is *undefined*.

type

`type`

Record type

Type

String.

Valid values are:

- A
- AAAA

Create

The field is required on creation.

saml:idp : The SAML Identity Provider structure.

This structure is used for SAML authentication configuration.

comment

`comment`

The SAML Identity Provider descriptive comment.

Type

String.

Create

The default value is *empty*.

groupname

`groupname`

The SAML groupname optional user group attribute.

Type

String.

Create

The default value is *empty*.

idp_type

`idp_type`

SAML Identity Provider type.

Type

String.

Valid values are:

- AZURE_SSO
- OKTA
- OTHER
- PING_IDENTITY
- SHIBBOLETH_SSO

Create

The field is required on creation.

metadata_token

`metadata_token`

The token returned by the uploadinit function call in object fileop.

Type

String.

Create

The default value is *undefined*.

Notes

metadata_token is not readable.

metadata_url

`metadata_url`

Identity Provider Metadata URL.

Type

String.

Create

The default value is *undefined*.

sso_redirect_url

`sso_redirect_url`

host name or IP address of the GM

Type

String.

Create

The default value is *empty*.

scheduledbackup : Scheduled backup settings.

You can back up your system files locally on the appliance or to your management system, or use TFTP, FTP or SCP to back them up to a remote server. Backing up and restoring the configuration files using TFTP, FTP and SCP is supported on both IPv4 and IPv6 communication protocols. You can select to back up files manually or schedule automatic backups for a later date.

The scheduled backup setting provides configuration for backing up system files and discovery databases periodically and on demand. It also provides restore settings to restore the files on the same appliance or on a different appliance.

backup_frequency

`backup_frequency`

The frequency of backups.

Type

String.

Valid values are:

- DAILY
- HOURLY
- WEEKLY

Create

The default value is *WEEKLY*.

backup_server

`backup_server`

The IP address of the backup server.

Type

String.

Create

The default value is *empty*.

backup_type

`backup_type`

The destination of the backup files.

Type

String.

Valid values are:

- FTP
- LOCAL
- SCP
- TFTP

Create

The default value is *LOCAL*.

discovery_data

`discovery_data`

Determines whether the restore the NetMRI data is enabled.

Type

Bool.

Create

The default value is *True*.

download_keys

`download_keys`

If set, scp backup support to download keys

Type

Bool.

Create

The default value is *False*.

enable

`enable`

Determines whether the scheduled backup is enabled.

Type

Bool.

Create

The default value is *True*.

execute

`execute`

The state for scheduled backup or restore operation.

Type

String.

Valid values are:

- TRIGGER

Create

The default value is *undefined*.

Notes

The execute cannot be updated.

execute is not readable.

hour_of_day

`hour_of_day`

The hour of the day past 12:00 AM the backup is performed.

Type

Unsigned integer.

Create

The default value is *3*.

keep_local_copy

`keep_local_copy`

Determines whether the local backup performed before uploading backup to remote storage.

Type

Bool.

Create

The default value is *False*.

key_type

`key_type`

If set, scp backup support based on keys type

Type

String.

Valid values are:

- id_ecdsa
- id_rsa

Create

The default value is *undefined*.

Notes

The key_type cannot be updated.

key_type is not readable.

minutes_past_hour

`minutes_past_hour`

The minute of the hour when the backup is performed.

Type

Unsigned integer.

Create

The default value is *0*.

nios_data

`nios_data`

Determines whether the restore of the NIOS data is enabled.

Type

Bool.

Create

The default value is *True*.

operation

`operation`

The scheduled backup operation.

Type

String.

Valid values are:

- BACKUP
- NONE
- RESTORE

Create

The default value is *NONE*.

password

`password`

The user password on the backup server.

Type

String.

Create

The default value is *undefined*.

Notes

The password cannot be updated.

password is not readable.

path

`path`

The directory path to the backup file stored on the server.

Type

String.

Create

The default value is *empty*.

restore_password

`restore_password`

The password on the restore server.

Type

String.

Create

The default value is *undefined*.

Notes

The restore_password cannot be updated.

restore_password is not readable.

restore_path

`restore_path`

The directory path to the restored file on the server.

Type

String.

Create

The default value is *empty*.

restore_server

`restore_server`

The IP address of the restore server.

Type

String.

Create

The default value is *empty*.

restore_type

`restore_type`

The destination of the restore files.

Type

String.

Valid values are:

- FTP
- SCP

Create

The default value is *FTP*.

restore_username

`restore_username`

The user name on the restore server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

splunk_app_data

`splunk_app_data`

Determines whether the restore of the Splunk application data is enabled.

Type

Bool.

Create

The default value is *True*.

status

`status`

The status of the scheduled backup.

Type

String.

Valid values are:

- ABORTED
- FAILED
- FINISHED
- IDLE
- IN_PROGRESS
- ROLL
- ROLLED
- SCHEDULING
- TRIGGERED

Notes

The status cannot be updated.

status cannot be written.

upload_keys

`upload_keys`

If set, scp backup support to upload keys

Type

Bool.

Create

The default value is *False*.

use_keys

`use_keys`

If set, scp backup support based on keys

Type

Bool.

Create

The default value is *False*.

username

`username`

The user name on the backup server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

weekday

weekday

The day of the week when the backup is performed.

Type

String.

Valid values are:

- FRIDAY
- MONDAY
- SATURDAY
- SUNDAY
- THURSDAY
- TUESDAY
- WEDNESDAY

Create

The default value is *SATURDAY*.

servicestatus : Node Service Status.

This structure contains a service status of the Grid Member's node.

description

description

The description of the current service status.

Type

String.

Notes

The description cannot be updated.

description cannot be written.

service

service

The service identifier.

Type

String.

Valid values are:

- AUTH_NAMED
- BFD
- BGP
- CORE_FILES
- CPU1_TEMP
- CPU2_TEMP
- CPU_USAGE
- DB_OBJECT
- DB_WRITES
- DISCOVERY_CAPACITY
- DISK_SIZE
- DISK_USAGE
- ENET_HA
- ENET_LAN
- ENET_LAN2

ENET_MGMT
- EXTERNAL_STORAGE
- FAN1
- FAN2
- FAN3
- FAN4
- FAN5
- FAN6
- FAN7
- FAN8
- FP_CORE_UTIL
- FP_UTIL
- JOIN_STATUS
- LCD
- MEMORY
- MGM_SERVICE
- NETWORK_CAPACITY
- NODE_STATUS
- NTP_SYNC
- OSPF
- OSPF6
- PASSIVE_HA_CONNECTIVITY
- POWER1
- POWER2
- POWER3
- POWER4
- POWER_SUPPLY
- QUERY_LOGGING_ENABLED
- RAID_BATTERY
- RAID_DISK1
- RAID_DISK2
- RAID_DISK3
- RAID_DISK4
- RAID_DISK5
- RAID_DISK6
- RAID_DISK7
- RAID_DISK8
- RAID_SUMMARY
- REPLICATION
- SFP_HA
- SFP_LAN
- SFP_LAN2
- SFP_MGMT
- SNIC_CHIP_TEMP
- SNIC_CORE_UTIL
- SNIC_PCB_TEMP
- SNIC_UTIL
- SUBGRID_CONN
- SWAP_USAGE
- SYS_TEMP
- VPN_CERT

Notes

The service cannot be updated.

service cannot be written.

status

`status`

The service status.

Type

String.

Valid values are:

- FAILED
- INACTIVE
- WARNING
- WORKING

Notes

The status cannot be updated.

status cannot be written.

setting:atpoutbound : Outbound settings for ATP events

This struct contains information about outbound settings for ATP events.

enable_query_fqdn

`enable_query_fqdn`

Flag to enable using DNS query FQDN for Outbound.

Type

Bool.

Create

The default value is *False*.

query_fqdn_limit

`query_fqdn_limit`

Max domain level for DNS Query FQDN

Type

Unsigned integer.

Create

The default value is *2*.

setting:automatedtrafficcapture : Automated Traffic Capture.

Grid level settings for automated traffic capture.

destination

`destination`

Destination of traffic capture files. Save traffic capture locally or upload to remote server using FTP or SCP.

Type

String.

Valid values are:

- FTP
- NONE

SCP

Create

The default value is *NONE*.

destination_host

`destination_host`

IP Address of the destination host.

Type

String.

Create

The default value is *empty*.

duration

`duration`

The time interval on which traffic will be captured(in sec).

Type

Unsigned integer.

Create

The default value is *empty*.

include_support_bundle

`include_support_bundle`

Enable automatic download for support bundle.

Type

Bool.

Create

The default value is *False*.

keep_local_copy

`keep_local_copy`

Save traffic capture files locally.

Type

Bool.

Create

The default value is *False*.

password

`password`

Password for accessing the FTP/SCP server. This field is not readable.

Type

String.

Create

The default value is *undefined*.

Notes

password is not readable.

support_bundle_directory

`support_bundle_directory`

Directory to store the support bundle on the remote server.

Type

String.

Create

The default value is *empty*.

traffic_capture_directory

`traffic_capture_directory`

Directory to store the traffic capture files on the remote server.

Type

String.

Create

The default value is *empty*.

traffic_capture_enable

`traffic_capture_enable`

Enable automated traffic capture based on monitoring thresholds.

Type

Bool.

Create

The default value is *False*.

username

`username`

User name for accessing the FTP/SCP server.

Type

String.

Create

The default value is *empty*.

setting:dnsresolver : DNS resolver Setting.

resolvers

`resolvers`

The resolvers of a Grid member. The Grid member sends queries to the first name server address in the list. The second name server address is used if first one does not response.

Type

String array. The array supports a maximum of 2 element(s).

Create

The default value is *empty*.

search_domains

`search_domains`

The Search Domain Group, which is a group of domain names that the Infoblox device can add to partial queries that do not specify a domain name. Note that you can set this parameter only when prefer_resolver or alternate_resolver is set.

Type

String array.

Create

The default value is *empty*.

setting:dynamicratio : Dynamic Ratio Setting for DTC Pool.

This structure contains configuration for dynamic ratio load balancing.

invert_monitor_metric

`invert_monitor_metric`

Determines whether the inverted values of the DTC SNMP monitor metric will be used.

Type

Bool.

Create

The default value is *False*.

method

`method`

The method of the DTC dynamic ratio load balancing.

Type

String.

Valid values are:

- MONITOR
- ROUND_TRIP_DELAY

Create

The default value is *MONITOR*.

monitor

`monitor`

The DTC monitor output of which will be used for dynamic ratio load balancing.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *empty*.

monitor_metric

`monitor_metric`

The metric of the DTC SNMP monitor that will be used for dynamic weighing.

Type

String.

Create

The default value is *undefined*.

monitor_weighing

`monitor_weighing`

The DTC monitor weight. 'PRIORITY' means that all clients will be forwarded to the least loaded server. 'RATIO' means that distribution will be calculated based on dynamic weights.

Type

String.

Valid values are:

- PRIORITY
- RATIO

Create

The default value is *RATIO*.

setting:email : The email settings for the Grid member.

address

`address`

The notification email address of a Grid member.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

enabled

`enabled`

Determines if email notification is enabled or not.

Type

Bool.

Create

The default value is *False*.

from_address

`from_address`

The email address of a Grid Member for ‘from’ field in notification.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

password

`password`

Password to validate from address

Type

String.

Create

The default value is *empty*.

Notes

password is not readable.

port_number

`port_number`

SMTP port number

Type

Unsigned integer.

Create

The default value is *25*.

relay

relay

The relay name or IP address.

Type

String.

Create

The default value is *empty*.

relay_enabled

relay_enabled

Determines if email relay is enabled or not.

Type

Bool.

Create

The default value is *False*.

smtps

smtps

SMTP over TLS

Type

Bool.

Create

The default value is *False*.

use_authentication

use_authentication

Enable or disable SMTP auth

Type

Bool.

Create

The default value is *False*.

setting:httpproxyserver : HTTP Proxy Server Setting.

The Grid HTTP Proxy Server Setting object provides information about the HTTP proxy server configuration.

address

address

The address of the HTTP proxy server.

Type

String.

Create

The field is required on creation.

certificate

`certificate`

The token returned by the uploadinit function call in object fileop for the CA certificate file used in the content inspection by an HTTP proxy server.

Type

String.

Create

The default value is *undefined*.

Notes

certificate is not readable.

comment

`comment`

The descriptive comment for the HTTP proxy server configuration.

Type

String.

Create

The default value is *empty*.

enable_content_inspection

`enable_content_inspection`

Determines if HTTPS content inspection by the HTTP proxy server is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_proxy

`enable_proxy`

Determines if the HTTP proxy server is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_username_and_password

`enable_username_and_password`

Determines if username and password for HTTP Proxy Server connectivity is used or not.

Type

Bool.

Create

The default value is *False*.

password

`password`

The password for the HTTP proxy server.

Type

String.

Create

The default value is *undefined*.

Notes

password is not readable.

port

`port`

The port on which the HTTP proxy server listens.

Type

Unsigned integer.

Create

The field is required on creation.

username

`username`

The user name for the HTTP proxy server.

Type

String.

Create

The default value is *empty*.

verify_cname

`verify_cname`

Determines if the CNAME record query verification is enabled or not.

Type

Bool.

Create

The default value is *False*.

setting:inactivelockout : Inactivity Lockout settings.

This structure contains inactivity lockout settings.

account_inactivity_lockout_enable

`account_inactivity_lockout_enable`

Enable/disable the account inactivity lockout.

Type

Bool.

Create

The default value is *False*.

inactive_days

`inactive_days`

Number of days after which account gets locked out if user does not login.

Type

Unsigned integer.

Create

The default value is *30*.

reactivate_via_remote_console_enable

`reactivate_via_remote_console_enable`

Enable/disable reactivating user account by logging in from remote console.

Type

Bool.

Create

The default value is *True*.

reactivate_via_serial_console_enable

`reactivate_via_serial_console_enable`

Enable/disable reactivating user account by logging in from serial console.

Type

Bool.

Create

The default value is *True*.

reminder_days

`reminder_days`

The number of days before the account lockout date when the appliance sends a reminder.

Type

Unsigned integer.

Create

The default value is *15*.

setting:ipam:threshold : IPAM Threshold Settings.

This struct contains information about the IPAM threshold settings.

reset_value

`reset_value`

Indicates the percentage point which resets the email/SNMP trap sending.

Type

Unsigned integer.

Create

The default value is *85*.

trigger_value

`trigger_value`

Indicates the percentage point which triggers the email/SNMP trap sending.

Type

Unsigned integer.

Create

The default value is *95*.

setting:ipam:trap : IPAM Trap Settings.

This struct contains information about the IPAM trap settings.

enable_email_warnings

`enable_email_warnings`

Determines whether sending warnings by email is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_snmp_warnings

enable_snmp_warnings

Determines whether sending warnings by SNMP is enabled or not.

Type

Bool.

Create

The default value is *False*.

setting:msserver : Microsoft server settings structure.

ad_user_default_timeout

ad_user_default_timeout

Determines the default timeout value (in seconds) for Active Directory user synchronization for all Microsoft servers.

Type

Unsigned integer.

Create

The default value is *7200*.

default_ip_site_link

default_ip_site_link

The default IP site link for sites created on NIOS for all Microsoft servers.

Type

String.

Create

The default value is *DEFAULTIPSITELINK*.

enable_ad_user_sync

enable_ad_user_sync

Determines if Active Directory user synchronization for all Microsoft servers in the Grid is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_dhcp_monitoring

enable_dhcp_monitoring

Determines if the monitoring and control of DHCP service on all Microsoft servers in the Grid is enabled or not.

Type

Bool.

Create

The default value is *True*.

enable_dns_monitoring

`enable_dns_monitoring`

Determines if the monitoring and control of DNS service on all Microsoft servers in the Grid is enabled or not.

Type

Bool.

Create

The default value is *True*.

enable_dns_reports_sync

`enable_dns_reports_sync`

Determines if synchronization of DNS reporting data from all Microsoft servers in the Grid is enabled or not.

Type

Bool.

Create

The default value is *True*.

enable_invalid_mac

`enable_invalid_mac`

Determines if the invalid MAC address synchronization for DHCP leases and fixed addresses is enabled or not.

Type

Bool.

Create

The default value is *True*.

enable_network_users

`enable_network_users`

Determines if the Network Users creation is enabled or not.

Type

Bool.

Create

The default value is *False*.

ldap_timeout

ldap_timeout

Determines an LDAP connection timeout interval (in seconds) for all Microsoft servers.

Type

Unsigned integer.

Create

The default value is *10*.

log_destination

log_destination

The logging of synchronization messages to the syslog or mslog.

Type

String.

Valid values are:

- MSLOG
- SYSLOG

Create

The default value is *MSLOG*.

max_connection

max_connection

Determines the maximum number of connections to Microsoft servers.

Type

Unsigned integer.

Create

The default value is *5*.

rpc_timeout

rpc_timeout

Determines the timeout value (in seconds) for RPC connections to all Microsoft servers.

Type

Unsigned integer.

Create

The default value is *10*.

setting:network : Network settings.

This structure contains a network settings for the member.

address

address

The IPv4 Address of the Grid Member.

Type

String.

Create

The default value is *empty*.

dscp

`dscp`

The DSCP (Differentiated Services Code Point) value determines relative priorities for the type of services on your network. The appliance implements QoS (Quality of Service) rules based on this configuration. Valid values are from 0 to 63.

Type

Unsigned integer.

Create

The default value is *0*.

Notes

dscp is associated with the field use_dscp (see use flag).

gateway

`gateway`

The default gateway for the Grid Member.

Type

String.

Create

The default value is *empty*.

lan_gateway

`lan_gateway`

LAN gateway only for GCP HA.

Type

String.

Create

The default value is *empty*.

lan_subnet_mask

`lan_subnet_mask`

LAN netmask only for GCP HA.

Type

String.

Create

The default value is *empty*.

primary

primary

Determines if the current address is the primary VLAN address or not.

Type

Bool.

Create

The default value is *True*.

subnet_mask

subnet_mask

The subnet mask for the Grid Member.

Type

String.

Create

The default value is *empty*.

use_dscp

use_dscp

Use flag for: dscp

Type

Bool.

Create

The default value is *False*.

vlan_id

vlan_id

The identifier for the VLAN. Valid values are from 1 to 4096.

Type

Unsigned integer.

Create

The default value is *empty*.

setting:password : Password settings.

This structure contains settings related to the Grid admin passwords.

chars_to_change

chars_to_change

The minimum number of characters that must be changed when revising an admin password.

Type

Unsigned integer.

Create

The default value is *0*.

expire_days

`expire_days`

The number of days of the password expiration period (if enabled).

Type

Unsigned integer.

Create

The default value is *30*.

expire_enable

`expire_enable`

If set to True, password expiration is enabled.

Type

Bool.

Create

The default value is *False*.

force_reset_enable

`force_reset_enable`

If set to True, all new users must change their passwords when they first log in to the system, and existing users must change the passwords that were just reset.

Type

Bool.

Create

The default value is *False*.

history_enable

`history_enable`

Enable/disable the password history.

Type

Bool.

Create

The default value is *False*.

min_password_age

min_password_age

Minimum password age in days before password can be updated. Can be set between 1 to 9998 days.

Type

Unsigned integer.

Create

The default value is *0*.

num_lower_char

num_lower_char

The minimum number of lowercase characters.

Type

Unsigned integer.

Create

The default value is *0*.

num_numeric_char

num_numeric_char

The minimum number of numeric characters.

Type

Unsigned integer.

Create

The default value is *0*.

num_passwords_saved

num_passwords_saved

Number of saved passwords if password history is enabled. Can be set between 1 to 20.

Type

Unsigned integer.

Create

The default value is *5*.

num_symbol_char

num_symbol_char

The minimum number of symbol characters. The allowed characters are ! @ # $ % ^ & * ( ).

Type

Unsigned integer.

Create

The default value is *0*.

num_upper_char

`num_upper_char`

The minimum number of uppercase characters.

Type

Unsigned integer.

Create

The default value is *0*.

password_min_length

`password_min_length`

The minimum length of the password.

Type

Unsigned integer.

Create

The default value is *4*.

reminder_days

`reminder_days`

The number of days before the password expiration date when the appliance sends a reminder.

Type

Unsigned integer.

Create

The default value is *15*.

setting:scavenging : DNS scavenging settings.

The DNS scavenging settings object provides information about scavenging configuration e.g. conditions under which records can be scavenged, periodicity of scavenging operations.

ea_expression_list

`ea_expression_list`

The extensible attributes expression list.

The particular record is treated as reclaimable if extensible attributes expression condition evaluates to ‘true’ for given record if scavenging hasn’t been manually disabled on a given resource record.

Type

A/An Extensible attribute expression operand struct array.

Create

The default value is *empty*.

enable_auto_reclamation

enable_auto_reclamation

This flag indicates if the automatic resource record scavenging is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_recurrent_scavenging

enable_recurrent_scavenging

This flag indicates if the recurrent resource record scavenging is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_rr_last_queried

enable_rr_last_queried

This flag indicates if the resource record last queried monitoring in affected zones is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_scavenging

enable_scavenging

This flag indicates if the resource record scavenging is enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_zone_last_queried

enable_zone_last_queried

This flag indicates if the last queried monitoring for affected zones is enabled or not.

Type

Bool.

Create

The default value is *False*.

expression_list

`expression_list`

The expression list.

The particular record is treated as reclaimable if expression condition evaluates to ‘true’ for given record if scavenging hasn’t been manually disabled on a given resource record.

Type

A/An Expression operand struct array.

Create

The default value is *empty*.

reclaim_associated_records

`reclaim_associated_records`

This flag indicates if the associated resource record scavenging is enabled or not.

Type

Bool.

Create

The default value is *False*.

scavenging_schedule

`scavenging_schedule`

Schedule setting for cloud discovery task.

Type

A/An Schedule Setting struct.

Create

The default value is *empty*.

setting:schedule : Schedule Setting.

This struct contains information about scheduling settings.

day_of_month

`day_of_month`

The day of the month for the scheduled task.

Type

Unsigned integer.

Create

The default value is *1*.

disable

`disable`

If set to True, the scheduled task is disabled.

Type

Bool.

Create

The default value is *False*.

every

`every`

The number of frequency to wait before repeating the scheduled task.

Type

Unsigned integer.

Create

The default value is *1*.

frequency

`frequency`

The frequency for the scheduled task.

Type

String.

Valid values are:

- DAILY
- HOURLY
- MONTHLY
- WEEKLY

Create

The default value is *empty*.

hour_of_day

`hour_of_day`

The hour of day for the scheduled task.

Type

Unsigned integer.

Create

The default value is *1*.

minutes_past_hour

`minutes_past_hour`

The minutes past the hour for the scheduled task.

Type

Unsigned integer.

Create

The default value is *1*.

month

`month`

The month for the scheduled task.

Type

Unsigned integer.

Create

The default value is *1*.

recurring_time

`recurring_time`

The recurring time for the schedule in Epoch seconds format. This field is obsolete and is preserved only for backward compatibility purposes. Please use other applicable fields to define the recurring schedule. DO NOT use recurring_time together with these fields.

If you use recurring_time with other fields to define the recurring schedule, recurring_time has priority over year, hour_of_day, and minutes_past_hour and will override the values of these fields, although it does not override month and day_of_month. In this case, the recurring time value might be different than the intended value that you define.

Type

Timestamp.

Create

The default value is *empty*.

repeat

`repeat`

Indicates if the scheduled task will be repeated or run only once.

Type

String.

Valid values are:

- ONCE
- RECUR

Create

The default value is *ONCE*.

time_zone

`time_zone`

The time zone for the schedule.

Type

String.

Create

The default value is *(UTC) Coordinated Universal Time*.

weekdays

weekdays

Days of the week when scheduling is triggered.

Type

Enum values array.

Valid values are:

- FRIDAY
- MONDAY
- SATURDAY
- SUNDAY
- THURSDAY
- TUESDAY
- WEDNESDAY

Create

The default value is *empty*.

year

year

The year for the scheduled task.

Type

Unsigned integer.

Create

The default value is *undefined*.

setting:security : Security settings.

This structure contains the Grid security settings.

admin_access_items

admin_access_items

A list of access control settings used for security access.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

audit_log_rolling_enable

audit_log_rolling_enable

If set to True, rolling of audit logs is enabled.

Type

Bool.

Create

The default value is *True*.

disable_concurrent_login

`disable_concurrent_login`

Whether concurrent login allowed gridlevel

Type

Bool.

Create

The default value is *False*.

http_redirect_enable

`http_redirect_enable`

If set to True, HTTP connections are redirected to HTTPS.

Type

Bool.

Create

The default value is *False*.

inactivity_lockout_setting

`inactivity_lockout_setting`

The Admin Group security settings.

Type

A/An Inactivity Lockout settings struct.

Create

The default value is:

```
  { 'account_inactivity_lockout_enable': False,
'inactive_days': 30,
'reactivate_via_remote_console_enable': True,
'reactivate_via_serial_console_enable': True,
'reminder_days': 15}
```

login_banner_enable

`login_banner_enable`

If set to True, the login banner is enabled.

Type

Bool.

Create

The default value is *True*.

login_banner_text

login_banner_text

The login banner text.

Type

String.

Create

The default value is *Disconnect NOW if you have not been expressly authorized to use this system*.

remote_console_access_enable

remote_console_access_enable

If set to True, superuser admins can access the Infoblox CLI from a remote location using an SSH (Secure Shell) v2 client.

Type

Bool.

Create

The default value is *False*.

security_access_enable

security_access_enable

If set to True, HTTP access restrictions are enabled.

Type

Bool.

Create

The default value is *False*.

security_access_remote_console_enable

security_access_remote_console_enable

If set to True, remote console access restrictions will be enabled.

Type

Bool.

Create

The default value is *True*.

session_timeout

session_timeout

The session timeout interval in seconds.

Type

Unsigned integer.

Create

The default value is *600*.

ssh_perm_enable

`ssh_perm_enable`

If set to False, SSH access is permanently disabled.

Type

Bool.

Notes

The ssh_perm_enable cannot be updated.

ssh_perm_enable cannot be written.

support_access_enable

`support_access_enable`

If set to True, support access for the Grid has been enabled.

Type

Bool.

Create

The default value is *False*.

support_access_info

`support_access_info`

Information string to be used for support access requests.

Type

String.

Create

The default value is *empty*.

setting:securitybanner : Security banner settings.

This structure contains settings related to the Grid security level banner.

color

`color`

The security level color.

Type

String.

Valid values are:

- BLACK
- BLUE
- BROWN
- CYAN
- GREEN
- MAGENTA
- ORANGE
- PURPLE

- RED
- YELLOW

Create

The default value is *GREEN*.

enable

`enable`

If set to True, the security banner will be displayed on the header and footer of the Grid Manager screen, including the Login screen.

Type

Bool.

Create

The default value is *False*.

level

`level`

The security level.

Type

String.

Valid values are:

- CONFIDENTIAL
- RESTRICTED
- SECRET
- TOP_SECRET
- UNCLASSIFIED

Create

The default value is *UNCLASSIFIED*.

message

`message`

The classification message to be displayed.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

setting:snmp : SNMP setting.

This structure contains information about the SNMP subsystem.

engine_id

`engine_id`

The engine ID of the appliance that manages the SNMP agent.

Type

String array.

Notes

The engine_id cannot be updated.

engine_id cannot be written.

queries_community_string

`queries_community_string`

The community string for SNMP queries.

Type

String.

Create

The default value is *empty*.

queries_enable

`queries_enable`

If set to True, SNMP queries are enabled.

Type

Bool.

Create

The default value is *empty*.

snmpv3_queries_enable

`snmpv3_queries_enable`

If set to True, SNMPv3 queries are enabled.

Type

Bool.

Create

The default value is *empty*.

snmpv3_queries_users

`snmpv3_queries_users`

A list of SNMPv3 queries users.

Type

A/An Queries user struct array.

Create

The default value is *empty*.

snmpv3_traps_enable

snmpv3_traps_enable

If set to True, SNMPv3 traps are enabled.

Type

Bool.

Create

The default value is *empty*.

syscontact

syscontact

The name of the contact person for the appliance. Second value is applicable only for HA pair. Otherwise second value is ignored.

Type

String array. The array supports a maximum of 2 element(s).

Create

The default value is *empty*.

sysdescr

sysdescr

Useful information about the appliance. Second value is applicable only for HA pair. Otherwise second value is ignored.

Type

String array. The array supports a maximum of 2 element(s).

Create

The default value is *empty*.

syslocation

syslocation

The physical location of the appliance. Second value is applicable only for HA pair. Otherwise second value is ignored.

Type

String array. The array supports a maximum of 2 element(s).

Create

The default value is *empty*.

sysname

sysname

The FQDN (Fully Qualified Domain Name) of the appliance. Second value is applicable only for HA pair. Otherwise second value is ignored.

Type

String array. The array supports a maximum of 2 element(s).

Create

The default value is *empty*.

trap_receivers

`trap_receivers`

A list of trap receivers.

Type

A/An Trap receiver struct array.

Create

The default value is *empty*.

traps_community_string

`traps_community_string`

A string the NIOS appliance sends to the management system together with its traps. Note that this community string must match exactly what you enter in the management system.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

traps_enable

`traps_enable`

If set to True, SNMP traps are enabled.

Type

Bool.

Create

The default value is *empty*.

setting:syslogproxy : Syslog proxy settings.

This structure contains the syslog proxy settings for the Grid Member.

client_acls

`client_acls`

This list controls the IP addresses and networks that are allowed to access the syslog proxy.

Type

One of the following: Address ac struct, TSIG ac struct array.

Create

The default value is:

```
empty
```

enable

enable

If set to True, the member receives syslog messages from specified devices, such as syslog servers and routers, and then forwards these messages to an external syslog server.

Type

Bool.

Create

The default value is *False*.

tcp_enable

tcp_enable

If set to True, the appliance can receive messages from other devices via TCP.

Type

Bool.

Create

The default value is *False*.

tcp_port

tcp_port

The TCP port the appliance must listen on.

Type

Unsigned integer.

Create

The default value is *514*.

udp_enable

udp_enable

If set to True, the appliance can receive messages from other devices via UDP.

Type

Bool.

Create

The default value is *False*.

udp_port

udp_port

The UDP port the appliance must listen on.

Type

Unsigned integer.

Create

The default value is *514*.

setting:trafficcapturechr : Grid level Traffic capture chr setting.

Grid level settings for enabling DNS cache hit ratio threshold for automated traffic capture.

chr_min_cache_utilization

`chr_min_cache_utilization`

Minimum DNS cache utilization threshold(%) for triggering traffic capture based on DNS cache hit ratio.

Type

Unsigned integer.

Create

The default value is *empty*.

chr_reset

`chr_reset`

DNS Cache hit ratio threshold(%) above which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

chr_threshold

`chr_threshold`

DNS Cache hit ratio threshold(%) below which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

chr_trigger_enable

`chr_trigger_enable`

Enable triggering automated traffic capture based on cache hit ratio thresholds.

Type

Bool.

Create

The default value is *False*.

setting:trafficcaptureqps : Grid level traffic capture QPS setting.

Grid level settings for enabling DNS query pe second thresholds for automated traffic capture.

qps_reset

`qps_reset`

DNS queries per second threshold below which traffic capture will be stopped.

Type

Unsigned integer.

Create

The default value is *empty*.

qps_threshold

`qps_threshold`

DNS queries per second threshold below which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

qps_trigger_enable

`qps_trigger_enable`

Enable triggering automated traffic capture based on DNS queries per second threshold.

Type

Bool.

Create

The default value is *False*.

setting:triggerrecdnslatency : Grid level settings for traffic capture based on recursive

DNS latency.

kpi_monitored_domains

`kpi_monitored_domains`

List of domains monitored by ‘Recursive DNS Latency Threshold’ trigger.

Type

A/An Monitored domains struct array.

Create

The default value is *empty*.

rec_dns_latency_listen_on_ip

`rec_dns_latency_listen_on_ip`

The DNS listen-on IP address used if rec_dns_latency_listen_on_source is IP.

Type

String.

Create

Recursive DNS latency settingis required when the interfaceset to IP.

rec_dns_latency_listen_on_source

`rec_dns_latency_listen_on_source`

The local IP DNS service is listen on (for recursive DNS latency trigger).

Type

String.

Valid values are:

- IP
- LAN2_V4
- LAN2_V6
- MGMT_V4
- MGMT_V6
- VIP_V4
- VIP_V6

Create

The default value is *VIP_V4*.

rec_dns_latency_reset

`rec_dns_latency_reset`

Recursive DNS latency above which traffic capture will be stopped.

Type

Unsigned integer.

Create

The default value is *empty*.

rec_dns_latency_threshold

`rec_dns_latency_threshold`

Recursive DNS latency below which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

rec_dns_latency_trigger_enable

`rec_dns_latency_trigger_enable`

Enable triggering automated traffic capture based on recursive DNS latency.

Type

Bool.

Create

The default value is *False*.

setting:triggerrecqueries : Grid level settings for traffic capture based on recursive

queries.

recursive_clients_count_reset

`recursive_clients_count_reset`

Concurrent outgoing recursive queries count below which traffic capture will be stopped.

Type

Unsigned integer.

Create

The default value is *empty*.

recursive_clients_count_threshold

`recursive_clients_count_threshold`

Concurrent outgoing recursive queries count below which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

recursive_clients_count_trigger_enable

`recursive_clients_count_trigger_enable`

Enable triggering automated traffic capture based on outgoing recursive queries count.

Type

Bool.

Create

The default value is *False*.

setting:triggeruthdnslatency : Member level settings for traffic based on authoritative DNS

latency.

auth_dns_latency_listen_on_ip

auth_dns_latency_listen_on_ip

The DNS listen-on IP address used if auth_dns_latency_on_source is IP.

Type

String.

Create

Authoritative DNS latencysetting is required when theinterface is set to IP.

auth_dns_latency_listen_on_source

auth_dns_latency_listen_on_source

The local IP DNS service is listen on (for authoritative DNS latency trigger).

Type

String.

Valid values are:

- IP
- LAN2_V4
- LAN2_V6
- MGMT_V4
- MGMT_V6
- VIP_V4
- VIP_V6

Create

The default value is *VIP_V4*.

auth_dns_latency_reset

auth_dns_latency_reset

Authoritative DNS latency above which traffic capture will stopped.

Type

Unsigned integer.

Create

The default value is *empty*.

auth_dns_latency_threshold

auth_dns_latency_threshold

Authoritative DNS latency below which traffic capture will be triggered.

Type

Unsigned integer.

Create

The default value is *empty*.

auth_dns_latency_trigger_enable

auth_dns_latency_trigger_enable

Enabling trigger automated traffic capture based on authoritative DNS latency.

Type

Bool.

Create

The default value is *False*.

setting:viewaddress : Notify and query source settings.

dns_notify_transfer_source

dns_notify_transfer_source

Determines which IP address is used as the source for DDNS notify and transfer operations.

Type

String.

Valid values are:

- ANY
- IP
- LAN2
- MGMT
- VIP

Create

The default value is *VIP*.

dns_notify_transfer_source_address

dns_notify_transfer_source_address

The source address used if dns_notify_transfer_source type is “IP”.

Type

String.

Create

The default value is *empty*.

dns_query_source_address

dns_query_source_address

The source address used if dns_query_source_interface type is “IP”.

Type

String.

Create

The default value is *empty*.

dns_query_source_interface

dns_query_source_interface

Determines which IP address is used as the source for DDNS query operations.

Type

String.

Valid values are:

- ANY
- IP
- LAN2
- MGMT
- VIP

Create

The default value is *VIP*.

enable_notify_source_port

enable_notify_source_port

Determines if the notify source port for a view is enabled or not.

Type

Bool.

Create

The default value is *False*.

Notes

enable_notify_source_port is associated with the field use_source_ports (see use flag).

enable_query_source_port

enable_query_source_port

Determines if the query source port for a view is enabled or not.

Type

Bool.

Create

The default value is *False*.

Notes

enable_query_source_port is associated with the field use_source_ports (see use flag).

notify_delay

notify_delay

Specifies the number of seconds of delay the notify messages are sent to secondaries.

Type

Unsigned integer.

Create

The default value is *5*.

Notes

notify_delay is associated with the field use_notify_delay (see use flag).

notify_source_port

`notify_source_port`

The source port for notify messages. When requesting zone transfers from the primary server, some secondary DNS servers use the source port number (the primary server used to send the notify message) as the destination port number in the zone transfer request. This setting overrides Grid static source port settings.

Valid values are between 1 and 63999. The default is selected by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Notes

notify_source_port is associated with the field use_source_ports (see use flag).

query_source_port

`query_source_port`

The source port for queries. Specifying a source port number for recursive queries ensures that a firewall will allow the response.

Valid values are between 1 and 63999. The default is selected by BIND.

Type

Unsigned integer.

Create

The default value is *empty*.

Notes

query_source_port is associated with the field use_source_ports (see use flag).

use_notify_delay

`use_notify_delay`

Use flag for: notify_delay

Type

Bool.

Create

The default value is *False*.

use_source_ports

`use_source_ports`

Use flag for: enable_notify_source_port , notify_source_port, enable_query_source_port,

query_source_port

Type

Bool.

Create

The default value is *False*.

view_name

`view_name`

The reference to DNS View

Type

String.

Create

The default value is *undefined*.

smartfolder:groupby : Smart Folder group by structure.

The Smart Folder group by structure defines grouping information in a global or personal Smart Folder.

enable_grouping

`enable_grouping`

Determines whether the grouping is enabled.

Type

Bool.

Create

The default value is *False*.

value

`value`

The name of the Smart Folder grouping attribute.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

value_type

`value_type`

The type of the Smart Folder grouping attribute value.

Type

String.

Valid values are:

- EXTATTR
- NORMAL

Create

The default value is *NORMAL*.

smartfolder:groupbyvalue : Smart Folder group by value structure.

This structure is used to query the Smart Folder children items.

name

`name`

The extensible attribute, object type or object name that is used to group objects.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

value

`value`

The value of the extensible attribute, object type or object name.

Type

String.

Create

The field is required on creation.

smartfolder:queryitem : Smart Folder query item structure.

The Smart Folder query item contains information about a query to be stored in a global or personal Smart Folder.

field_type

`field_type`

The Smart Folder query field type.

Type

String.

Valid values are:

- EXTATTR

- NORMAL

Create

The field is required on creation.

name

`name`

The Smart Folder query name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

op_match

`op_match`

Determines whether the query operator should match.

Type

Bool.

Create

The default value is *True*.

operator

`operator`

The Smart Folder operator used in query.

Type

String.

Valid values are:

- BEGINS_WITH
- CONTAINS
- DROPS_BY
- ENDS_WITH
- EQ
- GEQ
- GT
- HAS_VALUE
- INHERITANCE_STATE_EQUALS
- IP_ADDR_WITHIN
- LEQ
- LT
- MATCH_EXPR
- RELATIVE_DATE
- RISES_BY
- SUFFIX_MATCH

Create

The field is required on creation.

value

value

The Smart Folder query value.

Type

A/An Smart Folder query item value structure struct.

Create

The default value is *undefined*.

value_type

value_type

The Smart Folder query value type.

Type

String.

Valid values are:

- BOOLEAN
- DATE
- EMAIL
- ENUM
- INTEGER
- OBJTYPE
- STRING
- URL

Create

The default value is *STRING*.

smartfolder:queryitemvalue : Smart Folder query item value structure.

The Smart Folder query item value contains the value used for the query.

value_boolean

value_boolean

The boolean value of the Smart Folder query.

Type

Bool.

Create

The default value is *undefined*.

value_date

value_date

The timestamp value of the Smart Folder query.

Type

Timestamp.

Create

The default value is *undefined*.

value_integer

`value_integer`

The integer value of the Smart Folder query.

Type

Integer.

Create

The default value is *undefined*.

value_string

`value_string`

The string value of the Smart Folder query.

Type

String.

Create

The default value is *undefined*.

sortlist : DNS Sortlist.

A sortlist defines the order of IP addresses listed in responses sent to DNS queries.

address

`address`

The source address of a sortlist object.

Type

String.

Create

The field is required on creation.

Notes

The address is part of the base object.

match_list

`match_list`

The match list of a sortlist.

Type

String array.

Create

The default value is *empty*.

ssh_key : ‘List of ssh keys for a particular user.

This structure contains the details of the key.

key_name

key_name

Unique identifier for the key

Type

String.

Create

The default value is *undefined*.

Notes

The key_name is part of the base object.

key_type

key_type

ssh_key_types

Type

String.

Valid values are:

- ECDSA
- ED25519
- RSA

Create

The default value is *empty*.

key_value

key_value

ssh key text

Type

String.

Create

The default value is *undefined*.

subjectalternativename : Subject alternative name structure.

type

type

Type for alternative name for certificate.

Type

String.

Valid values are:

- DNS
- EMAIL
- IP
- URI

Create

The field is required on creation.

value

`value`

Information for current type.

Type

String.

Create

The field is required on creation.

svcparams : Svc Params structure.

The structure aggregates all information related to SVC parameters.

mandatory

`mandatory`

Specifies if this is mandatory key for this RR.

Type

Bool.

Create

The field is required on creation.

svc_key

`svc_key`

Svc param key.

Type

String.

Create

The field is required on creation.

svc_value

`svc_value`

Svc param value.

Type

String array.

Create

The default value is *empty*.

syslog:endpoint:servers : Syslog server structure

Contains parameters for creating server. User can create multiple server for one syslog endpoint.

address

`address`

Syslog Server IP address

Type

String.

Create

The field is required on creation.

certificate

`certificate`

Reference for creating syslog endpoint server.

Type

String.

This field supports nested return fields as described here.

Notes

The certificate cannot be updated.

certificate cannot be written.

certificate_token

`certificate_token`

The token returned by the uploadinit function call in object fileop.

Type

String.

Create

Field returned is required if connection_type is “stcp”.

Notes

certificate_token is not readable.

connection_type

`connection_type`

Connection type values

Type

String.

Valid values are:

- stcp
- tcp
- udp

Create

The default value is *udp*.

facility

`facility`

Facility values for syslog endpoint server

Type

String.

Valid values are:

- local0
- local1
- local2
- local3
- local4
- local5
- local6
- local7

Create

The default value is *local0*.

format

`format`

Format values for syslog endpoint server

Type

String.

Valid values are:

- formatted
- raw

Create

The default value is *raw*.

hostname

`hostname`

List of hostnames

Type

String.

Valid values are:

- FQDN
- HOSTNAME
- IP_ADDRESS

Create

The default value is *HOSTNAME*.

port

port

The port this server listens on.

Type

Unsigned integer.

Create

The default value is *514*.

severity

severity

Severity values for syslog endpoint server.

Type

String.

Valid values are:

- alert
- crit
- debug
- emerg
- err
- info
- notice
- warning

Create

The default value is *debug*.

syslogserver : Syslog server.

This structure contains information about a remote syslog server.

address_or_fqdn

address_or_fqdn

The server address or FQDN.

Type

String.

Create

The field is required on creation.

category_list

category_list

The list of all syslog logging categories.

Type

Enum values array.

Valid values are:

- ATP
- AUTH_ACTIVE_DIRECTORY
- AUTH_COMMON
- AUTH_LDAP
- AUTH_NON_SYSTEM
- AUTH_RADIUS
- AUTH_TACACS
- AUTH_UI_API
- CLOUD_API
- DHCPD
- DNS_CLIENT
- DNS_CONFIG
- DNS_DATABASE
- DNS_DNSSEC
- DNS_GENERAL
- DNS_LAME_SERVERS
- DNS_NETWORK
- DNS_NOTIFY
- DNS_QUERIES
- DNS_QUERY_REWRITE
- DNS_RESOLVER
- DNS_RESPONSES
- DNS_RPZ
- DNS_SCAVENGING
- DNS_SECURITY
- DNS_UPDATE
- DNS_UPDATE_SECURITY
- DNS_XFER_IN
- DNS_XFER_OUT
- DTC_HEALTHD
- DTC_IDNSD
- FTPD
- MS_AD_USERS
- MS_CONNECT_STATUS
- MS_DHCP_CLEAR_LEASE
- MS_DHCP_LEASE
- MS_DHCP_SERVER
- MS_DNS_SERVER
- MS_DNS_ZONE
- MS_SITES
- NON_CATEGORIZED
- NTP
- OUTBOUND_API
- TFTPD

Create

The default value is *empty*.

certificate

`certificate`

Reference to the underlying X509Certificate object.

Type

String.

This field supports nested return fields as described here.

Notes

The certificate cannot be updated.

certificate cannot be written.

certificate_token

certificate_token

The token returned by the uploadinit function call in object fileop.

Type

String.

Create

Field returned is required if connection_type is “STCP”.

Notes

certificate_token is not readable.

connection_type

connection_type

The connection type for communicating with this server.

Type

String.

Valid values are:

- STCP
- TCP
- UDP

Create

The default value is *UDP*.

local_interface

local_interface

The local interface through which the appliance sends syslog messages to the syslog server.

Type

String.

Valid values are:

- ANY
- LAN
- MGMT

Create

The default value is *ANY*.

message_node_id

message_node_id

Identify the node in the syslog message.

Type

String.

Valid values are:

HOSTNAME
- IP_HOSTNAME
- LAN
- MGMT

Create

The default value is *LAN*.

message_source

`message_source`

The source of syslog messages to be sent to the external syslog server. If set to ‘INTERNAL’, only messages the appliance generates will be sent to the syslog server.

If set to ‘EXTERNAL’, the appliance sends syslog messages that it receives from other devices, such as syslog servers and routers.

If set to ‘ANY’, the appliance sends both internal and external syslog messages.

Type

String.

Valid values are:
- ANY
- EXTERNAL
- INTERNAL

Create

The default value is *ANY*.

only_category_list

`only_category_list`

The list of selected syslog logging categories. The appliance forwards syslog messages that belong to the selected categories.

Type

Bool.

Create

The default value is *False*.

port

`port`

The port this server listens on.

Type

Unsigned integer.

Create

The default value is *514*.

severity

`severity`

The severity filter. The appliance sends log messages of the specified severity and above to the

external syslog server.

Type

String.

Valid values are:

- ALERT
- CRIT
- DEBUG
- EMERG
- INFO
- NOTICE
- WARNING

Create

The default value is *DEBUG*.

tacacsplus:server : The TACACS+ server structure.

This structure is used for TACACS+ authentication configuration.

address

`address`

The valid IP address or FQDN of the TACACS+ server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

auth_type

`auth_type`

The authentication protocol.

Type

String.

Valid values are:

- ASCII
- CHAP
- PAP

Create

The default value is *CHAP*.

comment

`comment`

The TACACS+ descriptive comment.

Type

String.

Create

The default value is *undefined*.

disable

`disable`

Determines whether the TACACS+ server is disabled.

Type

Bool.

Create

The default value is *False*.

port

`port`

The TACACS+ server port.

Type

Unsigned integer.

Create

The default value is *49*.

shared_secret

`shared_secret`

The secret key with which to connect to the TACACS+ server.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

Notes

shared_secret is not readable.

use_accounting

`use_accounting`

Determines whether the TACACS+ accounting server is used.

Type

Bool.

Create

The default value is *False*.

use_mgmt_port

`use_mgmt_port`

Determines whether the TACACS+ server is connected via the management interface.

Type

Bool.

Create

The default value is *False*.

taxii:rpzconfig : Taxii Member RPZ Configuration.

The Taxii Member RPZ Configuration object provides configuration for RPZ rule creation through the Taxii protocol. Each Grid member running the Taxii server can support a separate set of RPZs. The RPZs are accessible through a user-configurable name for the STIX collection.

collection_name

`collection_name`

The STIX collection name.

Type

String.

Create

The field is required on creation.

zone

`zone`

The reference to the RPZ in which rules are created through the Taxii protocol requests.

Type

String.

This field supports nested return fields as described here.

Create

The field is required on creation.

threatprotection:natport : NAT Threat Protection Port.

The structure provides information about the port blocks configured for NAT mapping.

block_size

`block_size`

The block size for the NAT Port configuration object.

Type

Unsigned integer.

Create

The field is required on creation.

end_port

`end_port`

The end port value for the NAT port configuration object.

Type

Unsigned integer.

Create

The field is required on creation.

start_port

`start_port`

The start port value for the NAT port configuration object.

Type

Unsigned integer.

Create

The field is required on creation.

threatprotection:natrule : NAT Threat Protection Rule.

The structure provides information about NAT rules configured for the threat protection NAT mapping feature.

address

`address`

The IP address for the threat protection NAT mapping rule.

Type

String.

Create

You must specify the address when the rule_type is set to ‘ADDRESS’.

cidr

`cidr`

The network CIDR for the threat protection NAT mapping rule.

Type

Unsigned integer.

Create

You must specify the cidr when the rule_type is set to ‘NETWORK’.

end_address

`end_address`

The end address for the range of the threat protection NAT mapping rule.

Type

String.

Create

You must specify the end_address when the rule_type is set to ‘RANGE’.

nat_ports

`nat_ports`

The NAT port configuration for the threat protection NAT mapping rule.

Type

A/An NAT Threat Protection Port struct array.

Create

The field is required on creation.

network

`network`

The network address for the threat protection NAT mapping rule.

Type

String.

Create

You must specify the network when the rule_type is set to ‘NETWORK’.

rule_type

`rule_type`

The rule type for the threat protection NAT mapping rule.

Type

String.

Valid values are:

- ADDRESS
- NETWORK
- RANGE

Create

The field is required on creation.

start_address

`start_address`

The start address for the range of the threat protection NAT mapping rule.

Type

String.

Create

You must specify the start_address when the rule_type is set to ‘RANGE’.

threatprotection:ruleconfig : Threat protection rule configuration.

The structure provides information about threat protection rule configuration.

action

`action`

The rule action.

Type

String.

Valid values are:

- ALERT
- DROP
- PASS

Create

The field is required on creation.

log_severity

`log_severity`

The rule log severity.

Type

String.

Valid values are:

- CRITICAL
- INFORMATIONAL
- MAJOR
- WARNING

Create

The field is required on creation.

params

`params`

The threat protection rule parameters.

Type

A/An Threat protection rule parameter struct array.

Create

The default value is *undefined*.

threatprotection:ruleparam : Threat protection rule

parameter.

The structure provides information about the threat protection rule parameter.

description

`description`

The rule parameter description.

Type

String.

Notes

The description cannot be updated.

description cannot be written.

enum_values

`enum_values`

The rule parameter enum values.

Type

String array.

Notes

The enum_values cannot be updated.

enum_values cannot be written.

max

`max`

The rule parameter maximum.

Type

Unsigned integer.

Notes

The max cannot be updated.

max cannot be written.

min

`min`

The rule parameter minimum.

Type

Unsigned integer.

Notes

The min cannot be updated.

min cannot be written.

name

`name`

The rule parameter name.

Type

String.

Create

The field is required on creation.

read_only

`read_only`

Determines if parameter value is editable at member level.

Type

Bool.

Notes

The read_only cannot be updated.

read_only cannot be written.

syntax

`syntax`

The rule parameter syntax.

Type

String.

Notes

The syntax cannot be updated.

syntax cannot be written.

value

`value`

The rule parameter value.

Type

String.

Create

The field is required on creation.

threatprotection:statinfo : Threat protection statistical information.

The structure provides information about threat protection statistical information configuration.

critical

critical

The number of critical events.

Type

Unsigned long integer.

Create

The default value is *undefined*.

informational

informational

The number of informational events.

Type

Unsigned long integer.

Create

The default value is *undefined*.

major

major

The number of major events.

Type

Unsigned long integer.

Create

The default value is *undefined*.

timestamp

timestamp

The timestamp when data was collected.

Type

Timestamp.

Notes

The timestamp cannot be updated.

timestamp cannot be written.

total

total

The total number of events.

Type

Unsigned long integer.

Create

The default value is *undefined*.

warning

warning

The number of warning events.

Type

Unsigned long integer.

Create

The default value is *undefined*.

thresholdtrap : The Grid SNMP threshold trap structure.

This structure is used to set the values of the thresholds of the SNMP traps.

trap_reset

trap_reset

Determines the threshold value to reset the trap.

Type

Unsigned integer.

Create

The default value is *The default value depends on the trap_type*.

trap_trigger

trap_trigger

Determines the threshold value to trigger the trap.

Type

Unsigned integer.

Create

The default value is *The default value depends on the trap_type*.

trap_type

trap_type

Determines the type of a given trap.

Type

String.

Valid values are:

- CpuUsage
- DBObjects
- DBWrites
- Disk
- ExtStorage
- FDUsage

- FastpathDroppedTraffic
- Fastpathmbuffdepletion
- IPAMUtilization
- Memory
- NetworkCapacity
- RPZHitRate
- RecursiveClients
- Reporting
- ReportingVolume
- Rootfs
- SwapUsage
- TcpUdpFloodAlertRate
- TcpUdpFloodDropRate
- ThreatProtectionDroppedTraffic
- ThreatProtectionTotalTraffic
- Tmpfs

Create

The field is required on creation.

trapnotification : The Grid SNMP trap notification structure.

This structure represents the trap notification settings of the Grid and Member objects. The structure determines which trap categories are enabled, and for which trap categories mail notification will be sent.

enable_email

`enable_email`

Determines if the email notifications for the given trap are enabled or not.

Type

Bool.

Create

The default value is *False*.

enable_trap

`enable_trap`

Determines if the trap is enabled or not.

Type

Bool.

Create

The default value is *True*.

trap_type

`trap_type`

Determines the type of a given trap.

Type

String.

Valid values are:

- AnalyticsRPZ
- AutomatedTrafficCapture
- BFD
- BGP
- Backup
- CPU
- CaptivePortal
- CiscoISEServer
- Clear
- CloudAPI
- CloudDNSsync
- Cluster
- ControlId
- DBActivity
- DHCP
- DNS
- DNSAttack
- DNSIntegrityCheck
- DNSIntegrityCheckConnection
- Database
- DisconnectedGrid
- Discovery
- DiscoveryConflict
- DiscoveryUnmanaged
- Disk
- DuplicateIP
- ENAT
- FDUsage
- FTP
- Fan
- HA
- HAOnCloud
- HSM
- HTTP
- IFMAP
- IMC
- IMCGRPCServer
- IPAMUtilization
- IPMIDevice
- LCD
- LDAPServers
- License
- Login
- MGM
- MSServer
- Memory
- NTP
- Network
- OCSPResponders
- OSPF
- OSPF6
- Outbound
- PowerSupply
- RAID
- RIRSWIP
- RPZHitRate
- RecursiveClients
- Reporting
- RootFS
- SNMP
- SSH
- SerialConsole
- SwapUsage
- Syslog
- System
- TFTP
- Taxii

- ThreatInsight
- ThreatProtection
- TmpFS
- WATCHFRR

Create

The field is required on creation.

trapreceiver : Trap receiver.

This structure contains information about an SNMP trap receiver.

address

`address`

The address of the trap receiver.

Type

String.

Create

The default value is *empty*.

comment

`comment`

A descriptive comment for this trap receiver.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

user

`user`

The SNMPv3 user for this trap receiver.

Type

String.

Create

The default value is *empty*.

tsigac : TSIG ac.

This struct represents a TSIG key.

tsig_key

`tsig_key`

A generated TSIG key. If the external primary server is a NIOS appliance running DNS One 2.x

code, this can be set to :2xCOMPAT.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

tsig_key_alg

`tsig_key_alg`

The TSIG key algorithm.

Type

String.

Valid values are:

- HMAC-MD5
- HMAC-SHA256

Create

The default value is *HMAC-MD5*.

tsig_key_name

`tsig_key_name`

The name of the TSIG key. If 2.x TSIG compatibility is used, this is set to ‘tsig_xfer’ on retrieval, and ignored on insert or update.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *empty*.

Notes

tsig_key_name is associated with the field use_tsig_key_name (see use flag).

use_tsig_key_name

`use_tsig_key_name`

Use flag for: tsig_key_name

Type

Bool.

Create

The default value is *False*.

updatesdownloadmemberconfig : Updates Download Member Configuration.

The Updates Download Member Configuration structure provides information and settings for configuring the member that is responsible for downloading updates.

interface

`interface`

The source interface for updates download requests.

Type

String.

Valid values are:

- ANY
- LAN1
- LAN2
- MGMT

Create

The field is required on creation.

is_online

`is_online`

Determines if the updates download member is online or not.

Type

Bool.

Notes

The is_online cannot be updated.

is_online cannot be written.

member

`member`

The name of the updates download member.

Type

String.

Create

The default value is *undefined*.

upgradegroup:member : Upgrade group member structure.

This structure represents the upgrade group member settings.

member

`member`

The upgrade group member name.

Type

String.

Create

The field is required on creation.

time_zone

`time_zone`

The upgrade group member time zone.

Type

String.

Notes

The time_zone cannot be updated.

time_zone cannot be written.

upgradegroup:schedule : Upgrade schedule group structure.

This structure is used to configure upgrade scheduling for groups.

distribution_dependent_group

`distribution_dependent_group`

The distribution dependent group name.

Type

String.

Create

The default value is *empty*.

distribution_time

`distribution_time`

The time of the next scheduled distribution.

Type

Timestamp.

Create

The default value is *0*.

name

`name`

The upgrade group name.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

time_zone

`time_zone`

The time zone for scheduling operations.

Type

String.

Notes

The time_zone cannot be updated.

time_zone cannot be written.

upgrade_dependent_group

`upgrade_dependent_group`

The upgrade dependent group name.

Type

String.

Create

The default value is *empty*.

upgrade_time

`upgrade_time`

The time of the next scheduled upgrade.

Type

Timestamp.

Create

The default value is *0*.

upgradestep : Upgrade process step.

The structure provides information about the status of the upgrade process step.

status_text

`status_text`

The status text that describes a step.

Type

String.

Create

The default value is *undefined*.

status_value

`status_value`

The status value of a step.

Type

String.

Valid values are:

- COMPLETED
- FAILURE
- NOT_CONNECTED
- NO_STATUS
- PROGRESSING

Create

The default value is *undefined*.

vlanlink : VLAN link.

This structure conatains information about VLAN object.

id

`id`

VLAN ID value.

Type

Unsigned integer.

Notes

The id is part of the base object.

The id cannot be updated.

id cannot be written.

name

`name`

Name of the VLAN.

Type

String.

Notes

The name is part of the base object.

The name cannot be updated.

name cannot be written.

vlan

`vlan`

Reference to the underlying StaticVlan object.

Type

SubObj.

The field also supports automatic selection of the next available VLAN in the specified vlanview or vlanrange. You can specify the vlanview or vlanrange in the following way:

Using a vlanview or vlanrange WAPI reference:

- func:nextavailablevlan:<reference>

Scheduled and approval operations are not supported when using the automatic VLAN selection.

NOTE: Automatic selection is supported only for JSON and XML requests.

Examples:

- func:nextavailablevlan:vlanview/ZG5zLnZsYW5fdmlldyRW:vl_view1/1/100
- func:nextavailablevlan:vlanrange/ZG5zLm5ldHdvcmskMTAu:vl_view1/vl_range1/1/10

This field can also be retrieved from a function call as part of an object insertion. The supported function calls for this field are:

- the next_available_vlan function call in object network (default parameters: **{'num': 1}**)
- the next_available_vlan function call in object ipv6network (default parameters: **{'num': 1}**)

To find out if the function can be called when _object_parameters matches multiple objects, see the function documentation.

The default parameters are passed to the specified function call and can be overridden by passing different values for the same parameter in _parameters.

To execute the function call, a dictionary must be set in this field with the following parameters:

Mandatory	Name	Comment
Y	**_object_function**	The name of the function.
Y	**_result_field**	The field in which the function returns its result.
See comment	**_object**	The WAPI object type on which the function calls. Either _object or _object_ref must be set.
See comment	**_object_ref**	A WAPI object reference on which the function calls. Either _object or _object_ref must be set.
N	**_parameters**	The parameters to be passed to the function.
See comment	**_object_parameters**	The parameters used for the object search, mandatory if _object is set.

As part of the insertion, the object identified by _object and _object_parameters will be fetched, and the function identified by _object_function will be called with the parameters specified in _parameters. The result of this function will be retrieved and the field of this function specified in _result_field will be extracted and used as the value for this field.

Note that if the function call returns a list, and the field requires a single value, the first value on the list will be used.

The following example uses a value for the 'next_available_ip' field in the 9.0.0.0/8 network, excluding IP addresses 9.0.0.1 and 9.0.0.2:

```
{
    '_object_function': 'next_available_ip',
    '_parameters': {
        'exclude': ['9.0.0.1', '9.0.0.2'],
    },
    '_result_field': 'ips',
    '_object': 'network',
    '_object_parameters': {
```

```
        'network': '9.0.0.0/8',
        'network_view': 'newdefaultnv',
    }
}
```

Note this function call might not be valid for this particular field, this is just an example.

This field supports nested return fields as described here.

Create

The field is required on creation.

Notes

The vlan is part of the base object.

vtftpdirmember : Virtual TFTP directory member.

The Virtual TFTP directory member structure is used to create a Virtual TFTP root directory for a specific IP address, network or range of IP addresses. Note that Virtual TFTP root is supported only for file downloads, but not for file uploads using TFTP clients.

address

address

The IP address of the clients which will see the virtual TFTP directory as the root directory.

Type

String.

Create

You must specify the address when the ip_type is set to 'ADDRESS'

cidr

cidr

The CIDR of network the clients from which will see the virtual TFTP directory as the root directory.

Type

Unsigned integer.

Create

You must specify the cidr when the ip_type is set to 'NETWORK'

end_address

end_address

The end IP address of the range within which the clients will see the virtual TFTP directory as the root directory.

Type

String.

Create

You must specify the end_address when the ip_type is set to 'RANGE'

ip_type

ip_type

The IP type of the virtual TFTP root directory.

Type

String.

Valid values are:

- ADDRESS
- NETWORK
- RANGE

Create

The field is required on creation.

member

member

The Grid member on which to create the virtual TFTP directory.

Type

String.

Create

The field is required on creation.

network

network

The IP address of network the clients from which will see the virtual TFTP directory as the root directory.

Type

String.

Create

You must specify the network when the ip_type is set to 'NETWORK'

start_address

start_address

The start IP address of the range within which the clients will see the virtual TFTP directory as the root directory.

Type

String.

Create

You must specify the start_address when the ip_type is set to 'RANGE'

zoneassociation : Zone association.

You can associate IPv4 and IPv6 networks with DNS zones to limit the zones that admins can use when they create DNS records for IP addresses in the networks. When a network is associated with one or more zones and an admin creates a DNS record for one of its IP addresses, the appliance allows the admin to create the DNS record in the associated zones only. For example, if you associate the 10.1.0.0/16 network with the corp100.com zone, admins are allowed to create

DNS records in the corp100.com zone only for IP addresses in the 10.1.0.0/16 network; or if you associate the 2001:db8:1::/48 network with the corp200.com zone, admins are allowed to create DNS records in the corp200.com zone only for IP addresses in the 2001:db8:1::/48 network.

This feature applies to A, AAAA and host records only. It does not apply to records in a shared record group. If you are creating a host record with multiple IP addresses in different networks, the networks must be associated with the zone of the host record.

If a network is not associated with a zone, admins can create DNS records for its IP addresses only in zones with no network associations as well.

You can associate a network with any authoritative zone whose primary server is a Grid member or a Microsoft server, or is unassigned. You cannot associate networks with zones that have external primary servers.

You can associate a network with multiple zones, and associate a zone with more than one network. You can associate IPv4 and IPv6 network containers and networks with zones. When you associate a network container with zones, its networks inherit the zone associations. You can override the zone associations at the network level.

If you split a network, the resulting subnets inherit the zone associations. If you join networks, the resulting network retains the zone associations of the network that you selected when you performed the join operation. You can override the inherited zone associations of individual networks. Subzones do not inherit the network associations of their parent zones.

When you import data into a zone that is associated with a list of networks, the imported A, AAAA and host records must have IP addresses in the associated networks. Grid Manager does not allow you to import A, AAAA and host records with IP addresses in unassociated networks.

When you associate a network with a zone, the DNS records created before the association are not affected. But if you edit an A, AAAA or host record after the association, Grid Manager does not allow you to save the record if its IP address is not in an associated network.

fqdn

`fqdn`

The FQDN of the authoritative forward zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

is_default

`is_default`

True if this is the default zone.

Type

Bool.

Create

The default value is *undefined*.

view

`view`

The view to which the zone belongs. If a view is not specified, the default view is used.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The default value is *undefined*.

zoneassociations : Zone associations.

This structure represents zone associations that include the Fully Qualified Domain Name(FQDN) and related DNS view for zones within the shared record group.

fqdn

`fqdn`

The FQDN of the authoritative forward zone.

Type

String.

Values with leading or trailing white space are not valid for this field.

Create

The field is required on creation.

view

`view`

The view to which the zone belongs. If a view is not specified, the default view is used.

Type

String.

Create

The default value is *default*.

zonenameserver : Zone Name Server.

The Zone Name Server structure provides IP address information for the name server associated with a NS record.

address

`address`

The address of the Zone Name Server.

Type

String.

Create

The field is required on creation.

auto_create_ptr

auto_create_ptr

Flag to indicate if ptr records need to be auto created.

Type

Bool.

Create

The default value is *True*.

zonerolloverinfo : The zone rollover information structure.

This structure is used for displaying zone rollover information.

days

days

The number of days that are left before the rollover period expires. Negative values are assigned if the period has expired.

Type

Integer.

Create

The default value is *undefined*.

display_domain

display_domain

The domain name of the signed zone.

Type

String.

Create

The default value is *undefined*.

view

view

The name of the view to which the zone belongs.

Type

String.

Create

The default value is *undefined*.

zone

zone

The reference to a signed zone whose KSK rollover time falls within the countdown days.

Type

String.

This field supports nested return fields as described here.

Create

The default value is *undefined*.

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Examples using object body requests

The following sections demonstrate how to interact with WAPI via a single entry point.

Single object body request example

Use a POST request to get the Host record with the name “test.somewhere.com”:

```
https://1.2.3.4/wapi/v2.14/request
```

With a body:

```
{
    "data": {
        "name": "test.somewhere.com"
    },
    "method": "GET",
    "object": "record:host"
}
```

Multiple object body request example

Use a POST request to get the Host record with the name “test.somewhere.com”, save its reference to the state object and use it for an update operation:

```
https://1.2.3.4/wapi/v2.14/request
```

With a body:

```
[{
    "method": "STATE:ASSIGN",
    "data": {
            "host_name": "test.somewhere.com"
    }
},
{
    "method": "GET",
    "object": "record:host",
    "data": {
            "name": "##STATE:host_name:##"
    },
    "assign_state": {
                    "host_ref": "_ref"
    },
    "enable_substitution": true,
    "discard": true
 },
 {
    "method": "PUT",
```

```
    "object": "##STATE:host_ref:##",
    "enable_substitution": true,
    "data": {
            "comment": "new comment"
    },
    "args": {
        "_return_fields": "comment"
    },
    "assign_state": {
                    "updated_comment": "comment"
    },
    "discard": true
 },
 {
    "method": "STATE:DISPLAY"
 }
]
```

Returns with a body:

```
{
     "host_name": "test.somewhere.com",
     "host_ref":
"record:host/ZG5...zdA:test.somewhere.com/default",
     "updated_comment": "new comment"
}
```

Use a POST request to get the Host record with the name “host.test.com”, save array index “ipv4addrs[1]” to the state object and use it for an update operation:

```
https://1.2.3.4/wapi/v2.14/request
```

With a body:

```
[{
    "method": "STATE:ASSIGN",
    "data": {
            "host_name": "host.test.com"
    }
},
{
    "method": "GET",
    "object": "record:host",
    "data": {
            "name": "##STATE:host_name:##"
    },
    "args": {
            "_return_fields": "ipv4addrs.ipv4addr"
    },
    "assign_state": {
                    "host_ref": "_ref",
                    "subobject": "ipv4addrs[1]"
    },
    "enable_substitution": true
 },
 {
    "method": "PUT",
    "object": "##STATE:host_ref:##",
    "enable_substitution": true,
    "data": {
            "comment": "Requested IP is
##STATE:subobject:##"
    },
    "args": {
```

```
            "_return_fields": "comment"
    },
    "assign_state": {
                    "updated_comment": "comment"
    },
    "discard": true
 },
 {
    "method": "STATE:DISPLAY"
 }
]
```

Returns with a body:

```
[{
    "result": [{
                    "_ref":
"record:host/ZG5...c3Q:host.test.com/default",
                   "ipv4addrs": [{
                      "_ref":
"record:host_ipv4addr/ZG5z...xLg:1.1.1.1/host.test.com/de

                      "ipv4addr": "1.1.1.1"
                    },
                    {
                      "_ref":
"record:host_ipv4addr/ZG5...yLg:2.2.2.2/host.test.com/def

                      "ipv4addr": "2.2.2.2"
                    }
                   ]
     }
    ]
 },
 {
    "host_name": "host.test.com",
    "host_ref":
"record:host/ZG5...c3Q:host.test.com/default",
    "subobject": {
        "_ref":
"record:host_ipv4addr/ZG5...yLg:2.2.2.2/host.test.com/def

        "ipv4addr": "2.2.2.2"
    }
    "updated_comment": "Requested IP is {'_ref':
'record:host_ipv4addr/ZG5...yLg:2.2.2.2/host.test.com/def

                        'ipv4addr': '2.2.2.2'}"
 }
]
```

Extensible attribute example

Use a POST request to copy extensible attribute “Building” from an existing network to a new one using “assign_state” to save the value in the state object:

```
https://1.2.3.4/wapi/v2.14/request
```

With a body:

```
[{
    "method": "GET",
    "object": "network",
    "data": {
            "network": "10.1.0.0/16"
    },
    "args": {
            "_return_fields+": "extattrs"
        },
    "assign_state": {
        "ea_value": "*Building"
    },
    "discard": true
 },
 {
    "method": "POST",
    "object": "network",
    "data": {
            "network": "20.1.0.0/16",
            "extattrs": {
                        "Building": {
                                    "value":
"##STATE:ea_value:##"
                        }
            }
    },
    "enable_substitution": true
 }
]
```


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Valid values for extensible attributes

Extensible attributes are sets of name/value pairs associated with an object. The name and the type of value are defined in the extensible attribute definition.

Objects that support extensible attributes have an **extattrs** field, which is a dictionary that contains the name/value dictionary pairs.

Following is an example of using JSON to encode the extensible attributes field:

```
"extattrs": {
            "attrstring": {"value": "test string"},
            "attrinteger": {"value": -1},
            "attremail": {"value": "test@test.com"},
            "attrdate": {"value": "2011-11-
23T11:01:00Z"},
            "attrenum": {"value": "Enum Value"},
            }
```

where each attribute has a valid type described by its name.

Extensible attributes inheritance

If inheritance is enabled for this extensible attribute, the following fields are supported in the extensible attribute value object:

```
"attr": {
     "value": <the extattr value>,
     # The following is a read-only field
     "inheritance_source": <reference to the object this
EA is inheriting from>,

     # The following are write-only fields
     "inheritance_operation": one of 'INHERIT', 'DELETE'
or 'OVERRIDE'
     "descendants_action": {
           "option_delete_ea": one of 'REMOVE' or
'RETAIN'
           "option_with_ea": one of 'CONVERT', 'INHERIT'
or 'RETAIN'
           "option_without_ea": one of 'INHERIT' or
'NOT_INHERIT'
     }
}
```

Following is an example of using JSON to insert a set of extensible attributes exercising the above fields:

```
"extattrs": {
```

```
    "EAname": {
          "descendants_action": {
                "option_with_ea": "RETAIN",
                "option_without_ea": "NOT_INHERIT"},
          "value": "EAvalue"}}
```

Note: For extensible attributes inheritance to work correctly with Host Record object (record:host) use_for_ea_inheritance should be set to true for one of its IP host addresses: IPv4 Host address object (record:host_ipv4addr) or IPv6 Host address object (record:host_ipv6addr).

inheritance_operation

By default, this field is set to ‘OVERRIDE’ if it is not specified. If it is set to ‘INHERIT’, the value field will be ignored or omitted, and the value will be set to inherit from the object’s parent.

inheritance_source

This is a read-only field. If present, it contains the reference to the object from which the value of the extensible attribute is inherited.

descendants_action:option_delete_ea

This field determines the action to be taken for the object’s children when the extensible attribute is removed. This field is meaningful only when inheritance_operation is set to ‘DELETE’.

If this field is set to ‘REMOVE’, the extensible attributes of the object’s children will also be removed. If it set to ‘RETAIN’, they will be retained.

descendants_action:option_with_ea

This field determines the action to be taken for the object’s children when the extensible attribute is added or modified. This field is meaningful only when inheritance_operation is set to ‘INHERIT’.

If this field is set to ‘CONVERT’ and the extensible attribute value of the object’s children is the same as that of the parent, the value will change to an inherited attribute. If the value is different, it will not be changed.

If this field is set to ‘INHERIT’, the extensible attribute value of the object’s children will be set to inherit from the parent, regardless of its previous value.

If the field is set to ‘RETAIN’, the extensible attribute value of the object’s children will not be modified.

descendants_action:option_without_ea

This field determines the action to be taken for the object’s children when the extensible attribute is added or modified. This field is meaningful only when inheritance_operation is set to ‘INHERIT’ or ‘OVERRIDE’ and the object’s children do not have values set for this extensible attribute.

If this field is set to ‘INHERIT’, the object’s children will have a new extensible attribute added, which is inherited from its parent.

If this field is set to ‘NOT_INHERIT’, no changes will be made to the object’s children.

Extensible attributes search

Extensible attributes require a special search syntax. Searches for extensible attributes are sent by prefixing the extensible attribute name with an asterisk (*). Standard search suffixes can be applied to the extensible attribute if they are supported by the attribute type.

For example, a search for all networks that contain a string extensible attribute named ‘Building’ with a case-insensitive value ‘data center’ should be sent to the server as follows (using HTTP GET):

```
GET /wapi/v2.14/network?*Building:='Data Center'
```

Extensible attributes update

The extensible attributes field allows +/- to be specified as part of the field name while updating the object, which will respectively add/modify or remove the specified extensible attribute. The appliance returns an error when the specified extensible attribute does not exist. Note that this is supported only when using JSON to access WAPI.

Following is an example of unconditionally removing the “attrstring” and “attrinteger” extensible attributes:

```
"extattrs-": {
             "attrstring": {},
             "attrinteger": {}
             }
```

To remove an extensible attribute that has a specific value, the

value should be passed to the request as follows:

```
"extattrs-": {
             "attrstring": {"value": "test string"},
             }
```

If the specified value is different than the existing value, the appliance returns an error.

Following is an example of adding or updating (if the extensible attribute already exists) the “attrstring” extensible attribute:

```
"extattrs+": {
             "attrstring": {"value": "new string"}
             }
```


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32-bit unsigned integers

32-bit unsigned integers range from 0 to 4294967295.

CIDR

A way to specify an IPv4 netmask using an integer from 0 to 32 and an IPv6 netmask using an integer from 0 to 128.

Epoch seconds

The number of seconds since midnight UTC on January 1, 1970.

FQDN

An FQDN consists of the host name followed by the domain name (Example: abc.com).

Unless otherwise specified, FQDNs are limited to 256 characters.

IPv4 Address

An IPv4 address is a 32-bit number in dotted decimal notation. It consists of four 8-bit groups of decimal digits separated by decimal points (Example: 192.168.1.2).

IPv6 Address

An IPv6 address is a string that consists of eight groups of four hexadecimal digits in which each group is separated by a colon (:) (Example: 2001:0db8:85a3:0000:0000:8a2e:0370:7334).

Various shortcuts exist to shorten the string representation of an IPv6 address. For example, you can omit the leading zeros of each group and replace one or any number of consecutive groups of 0 value with two colons(::). The previous example can be re-written as 2001:db8:85a3::8a2e:370:7334.

Override/use flags

If a field has an associated use flag, it becomes effective only if the corresponding use flag is set to True. Otherwise, the default inherited from the “parent” is applied(this could be either the parent or Grid-level object).

When a field is first set to a value and the associated use flag is false, it will be automatically set to true.

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Object restrictions

CSV export

The following objects support CSV import/export:

adminrole, allrecords, allrpzrecords, dhcpfailover, discoverytask, filterfingerprint, filtermac, filternac, filteroption, fingerprint, fixedaddress, ftpuser, ipv6filteroption, ipv6fixedaddress, ipv6network, ipv6range, ipv6sharednetwork, lease, macfilteraddress, network, parentalcontrol:subscriberrecord, range, record:a, record:aaaa, record:alias, record:caa, record:cname, record:dhcid, record:dname, record:dnskey, record:ds, record:host, record:https, record:mx, record:naptr, record:ns, record:nsec, record:nsec3, record:nsec3param, record:ptr, record:rpz:a, record:rpz:a:ipaddress, record:rpz:aaaa, record:rpz:aaaa:ipaddress, record:rpz:cname, record:rpz:cname:clientipaddress, record:rpz:cname:clientipaddressdn, record:rpz:cname:ipaddress, record:rpz:cname:ipaddressdn, record:rpz:https, record:rpz:mx, record:rpz:naptr, record:rpz:ptr, record:rpz:srv, record:rpz:svcb, record:rpz:txt, record:rrsig, record:srv, record:svcb, record:tlsa, record:txt, record:unknown, sharednetwork, threatprotection:profile, threatprotection:profile:rule, zone_auth, zone_rp

Global search

The following objects support global search:

ad_auth_service, admingroup, adminrole, adminuser, allendpoints, allnsgroup, approvalworkflow, awsrte53taskgroup, awsuser, azurednstaskgroup, azureuser, bulkhost, certificate:authservice, datacollectioncluster, dhcpfailover, dhcpoptionspace, discovery:device, discovery:deviceinterface, discovery:memberproperties, dns64group, dtc:lbdn, dtc:monitor:http, dtc:monitor:icmp, dtc:monitor:pdp, dtc:monitor:sip, dtc:monitor:snmp, dtc:monitor:tcp, dtc:pool, dtc:server, dtc:topology, filterfingerprint, filtermac, filternac, filteroption, filterrelayagent, fingerprint, fixedaddress, fixedaddresstemplate, ftpuser, gcpdnstaskgroup, gcpuser, gmcschedule, grid:dhcpproperties, grid:dns, grid:filedistribution, grid:servicerestart:group, grid:threatinsight, ipv6dhcpoptionspace, ipv6filteroption, ipv6fixedaddress, ipv6fixedaddresstemplate, ipv6network, ipv6networkcontainer, ipv6networktemplate, ipv6range, ipv6rangetemplate, ipv6sharednetwork, kerberoskey, ldap_auth_service, lease,

macfilteraddress, mastergrid, member, member:dhcpproperties, member:dns, member:filedistribution, member:threatprotection, msserver, msserver:adsites:domain, msserver:adsites:site, msserver:dhcp, msserver:dns, mssuperscope, multiregions, namedacl, natgroup, network, networkcontainer, networktemplate, networkuser, networkview, notification:rule, nsgroup, nsgroup:delegation, nsgroup:forwardingmember, nsgroup:forwardstubserver, nsgroup:stubmember, parentalcontrol:avp, parentalcontrol:subscribersite, radius:authservice, range, rangetemplate, record:a, record:aaaa, record:alias, record:caa, record:cname, record:dhcid, record:dname, record:dnskey, record:ds, record:host, record:host_ipv4addr, record:host_ipv6addr, record:https, record:mx, record:naptr, record:ns, record:nsec, record:nsec3param, record:ptr, record:rpz:a, record:rpz:a:ipaddress, record:rpz:aaaa, record:rpz:aaaa:ipaddress, record:rpz:cname, record:rpz:cname:clientipaddress, record:rpz:cname:clientipaddressdn, record:rpz:cname:ipaddress, record:rpz:cname:ipaddressdn, record:rpz:https, record:rpz:mx, record:rpz:naptr, record:rpz:ptr, record:rpz:srv, record:rpz:svcb, record:rpz:txt, record:rrsig, record:srv, record:svcb, record:tlsa, record:txt, record:unknown, rir:organization, roaminghost, ruleset, saml:authservice, sharednetwork, sharedrecord:a, sharedrecord:aaaa, sharedrecord:cname, sharedrecord:mx, sharedrecord:srv, sharedrecord:txt, sharedrecordgroup, snmpuser, superhost, tacacsplus:authservice, tftpfiledir, threatinsight:insight_allowlist, threatinsight:moduleset, threatprotection:profile, upgradegroup, vdiscoverytask, view, vlan, vlanrange, vlanview

Scheduling

The following objects support scheduling:

approvalworkflow, bulkhost, distributionschedule, dns64group, dtc:lbdn, dtc:monitor:http, dtc:monitor:icmp, dtc:monitor:pdp, dtc:monitor:sip, dtc:monitor:snmp, dtc:monitor:tcp, dtc:pool, dtc:server, dtc:topology, fileop, filterfingerprint, filtermac, filternac, filteroption, filterrelayagent, fingerprint, fixedaddress, gmcschedule, grid:filedistribution, grid:threatinsight, ipv6filteroption, ipv6fixedaddress, ipv6network, ipv6networkcontainer, ipv6range, ipv6sharednetwork, macfilteraddress, mastergrid, member:filedistribution, member:parentalcontrol, member:threatinsight, msserver, msserver:dhcp, msserver:dns, mssuperscope, natgroup, network, networkcontainer, outbound:cloudclient, parentalcontrol:avp, parentalcontrol:blockingpolicy, parentalcontrol:subscriber, parentalcontrol:subscribersite, range, record:a, record:aaaa, record:alias, record:caa, record:cname, record:dhcid, record:dname, record:host,

record:https, record:mx, record:naptr, record:ns, record:ptr, record:rpz:a, record:rpz:a:ipaddress, record:rpz:aaaa, record:rpz:aaaa:ipaddress, record:rpz:cname, record:rpz:cname:clientipaddress, record:rpz:cname:clientipaddressdn, record:rpz:cname:ipaddress, record:rpz:cname:ipaddressdn, record:rpz:https, record:rpz:mx, record:rpz:naptr, record:rpz:ptr, record:rpz:srv, record:rpz:svcb, record:rpz:txt, record:srv, record:svcb, record:tlsa, record:txt, record:unknown, recordnamepolicy, rir, rir:organization, roaminghost, scavengingtask, sharednetwork, sharedrecord:a, sharedrecord:aaaa, sharedrecord:cname, sharedrecord:mx, sharedrecord:srv, sharedrecord:txt, sharedrecordgroup, smartfolder:global, smartfolder:personal, superhost, threatinsight:allowlist, threatinsight:cloudclient, threatinsight:insight_allowlist, threatinsight:moduleset, upgradegroup, upgradeschedule, vdiscoverytask, view, zone_auth, zone_delegated, zone_forward, zone_rp, zone_stub

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