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4.1 lomdesign: The LOM design configuration structure.  
4.0 lom: The Lights Out Management (LOM) configuration structure.  

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5.1 Examples accessing WAPI using Curl

5.2 Examples using object body requests

5.3 Valid values for extensible attributes

5.4 Extensible attributes inheritance

5.5 Extensible attributes search

5.6 Extensible attributes update

5.7 Glossary

5.8 Object restrictions
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.

1.1 Notation

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

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<th>Description</th>
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<tbody>
<tr>
<td>objref</td>
<td>A reference to an object. This must be a reference returned from an earlier call. For more information, see Object Reference.</td>
</tr>
<tr>
<td>WAPI</td>
<td>Used as a generic start in an URL. In real calls, this needs to be replaced with /wapi/v2.7 or similar syntax.</td>
</tr>
<tr>
<td>objtype</td>
<td>The name of an object type, such as network.</td>
</tr>
<tr>
<td>field</td>
<td>The name of a field, such as comment.</td>
</tr>
<tr>
<td>value</td>
<td>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.</td>
</tr>
<tr>
<td>[thing]</td>
<td>These brackets are used to signify an optional value.</td>
</tr>
<tr>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>thing...</td>
<td>... 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 &amp; in arguments.</td>
</tr>
<tr>
<td>{}</td>
<td>These brackets are used to group information in descriptions.</td>
</tr>
</tbody>
</table>

1.2 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 only authentication that uses HTTP Basic Authentication. 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/v2.7/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).
1.3 Backward Compatibility

The Infoblox WAPI has a versioning scheme that is independent of the NIOS versioning scheme. The current WAPI version is 2.7.

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.

1.4 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 2.7.

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:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_return_type</td>
<td>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.</td>
</tr>
<tr>
<td>_method</td>
<td>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</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_schedinfo.scheduled_time</td>
<td>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.</td>
</tr>
<tr>
<td>_schedinfo.schedule_now</td>
<td>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.</td>
</tr>
<tr>
<td>_schedinfo.predecessor_task</td>
<td>Optional reference to a scheduled task that will be executed before the submitted task.</td>
</tr>
<tr>
<td>_schedinfo.warnlevel</td>
<td>Optional warning level for the operation, valid values are ‘WARN’ and ‘NONE’. If not specified, ‘NONE’ will be used.</td>
</tr>
<tr>
<td>_approvalinfo.comment</td>
<td>Comment for the approval operation (this can be optional or required depending on the settings for the approval workflow).</td>
</tr>
<tr>
<td>_approvalinfo.query_mode</td>
<td>Optional query 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”.</td>
</tr>
<tr>
<td>_approvalinfo.ticket_number</td>
<td>Ticket number for the approval operation (this can be optional or required depending on the settings for the approval workflow).</td>
</tr>
</tbody>
</table>

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/v2.7/networkview?
[_return_type]=xml-pretty&name=default

Returns with a body:

```xml
<?xml version="1.0"?>
<list>
  <value type="object">
    <is_default type="boolean">true</is_default>
    <_ref>networkview/ZG5zLm5ldHdvcmtdmlldyQw:default/true</_ref>
    <name>default</name>
  </value>
</list>
```

1.5 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:
1.6 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 }... ] ]`

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>wapitype</td>
<td>The object type being referenced. Example: network.</td>
</tr>
<tr>
<td>refdata</td>
<td>Opaque internal object identifier. A sequence of letters, digits, “-” (dash) and “_” (underscore).</td>
</tr>
<tr>
<td>nameN</td>
<td>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.</td>
</tr>
</tbody>
</table>

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`

1.7 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/v2.7/network/
ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default?
_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/v2.7/network/
ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default?
_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"
    ]
}
```

1.8 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.

1.9 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.

1.10 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:

<table>
<thead>
<tr>
<th>Content Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>application/json</td>
<td>JSON format, see <a href="http://json.org">http://json.org</a> for more information.</td>
</tr>
<tr>
<td>application/xml</td>
<td>XML format, see <a href="http://xml.org">XML Format</a> for more information.</td>
</tr>
<tr>
<td>text/xml</td>
<td>Alternative way to specify application/xml.</td>
</tr>
<tr>
<td>application/x-www-form-urlencoded</td>
<td>Arguments to method 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.</td>
</tr>
</tbody>
</table>

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.

1.11 XML Format

WAPI uses the following XML constructs:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;list&gt;</td>
<td>Array, child nodes are items in list. Names of child elements are not significant (and can be same).</td>
</tr>
<tr>
<td>&lt;X type=&quot;object&quot;&gt;</td>
<td>Object X, child nodes are members of object. X can be any value if used outside an object context</td>
</tr>
<tr>
<td>&lt;X type=&quot;T&quot;&gt;</td>
<td>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.</td>
</tr>
<tr>
<td>&lt;X null=&quot;true&quot;/&gt;</td>
<td>Field X with value null/None.</td>
</tr>
</tbody>
</table>

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):
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
<?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>
  </value>
</list>
```

### 1.12 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.

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td><strong>Bad Request.</strong> 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.)</td>
</tr>
<tr>
<td>500</td>
<td><strong>Server Error.</strong> 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 &quot;trace&quot;).</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>Error type (followed by an explanation after :).</td>
</tr>
<tr>
<td>code</td>
<td>Symbolic error code.</td>
</tr>
<tr>
<td>text</td>
<td>Explanation of the error.</td>
</tr>
<tr>
<td>trace</td>
<td>Debug trace from the server, only if debug is on.</td>
</tr>
</tbody>
</table>

Example of Error Return (trace shortened):

```json
{
  "Error": "AdmConProtoError: Unknown argument/field: netwdork",
  "code": "Client.Ibap.Proto",
  "text": "Unknown argument/field: netwdork",
  "trace": " File "/infoblox/common/lib/python/info..."
}
```
2.1 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 }... ]

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 or by searching for objects of a specific type (objtype) with the given search conditions.

Arguments to the search (objtype) form are field names and values to match. If no arguments are used, all object 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
<table>
<thead>
<tr>
<th>Method Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_max_results</td>
<td>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.</td>
</tr>
<tr>
<td>_return_fields</td>
<td>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.</td>
</tr>
<tr>
<td>_return_fields+</td>
<td>Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).</td>
</tr>
<tr>
<td>_return_as_object</td>
<td>If set to 1, a results object will be returned (see below for more information). If not specified, it defaults to 0. If set, _max_results must also be set.</td>
</tr>
<tr>
<td>_paging</td>
<td>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.</td>
</tr>
<tr>
<td>_page_id</td>
<td>If set, the specified page of results will be returned.</td>
</tr>
<tr>
<td>_proxy_search</td>
<td>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’.</td>
</tr>
<tr>
<td>_schema</td>
<td>If this option is specified, a WAPI schema will be returned (see below for more information).</td>
</tr>
<tr>
<td>_schema_version</td>
<td>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.</td>
</tr>
<tr>
<td>_get_doc</td>
<td>If this option is specified, a WAPI schema with documentation will be returned. Applicable only when _schema_version is 2.</td>
</tr>
<tr>
<td>_schema_searchable</td>
<td>If this option is specified, search only fields will also be returned. Applicable only when _schema_version is 2.</td>
</tr>
</tbody>
</table>

**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:
<table>
<thead>
<tr>
<th>Modifier</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Negates the condition.</td>
</tr>
<tr>
<td>:</td>
<td>Makes string matching case insensitive.</td>
</tr>
<tr>
<td>~</td>
<td>Regular expression search. Expressions are unanchored.</td>
</tr>
<tr>
<td>&lt;</td>
<td>Less than or equal.</td>
</tr>
<tr>
<td>&gt;</td>
<td>Greater than or equal.</td>
</tr>
</tbody>
</table>

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**

In the object reference form (`objref`) only one object is returned (as an object, not a list). In the search form (`objtype`) the request always 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.

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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Present</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>result</td>
<td>Always</td>
<td>Actual result of the read operation, this is a list of objects.</td>
</tr>
<tr>
<td>next_page_id</td>
<td>Optional</td>
<td>If there was a paging request, this is the ID for the next page of results.</td>
</tr>
</tbody>
</table>

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 ‘ipv4addr.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 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 can pass the following return field to the search: ‘object.’ (Note the trailing period).

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

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Normal return. Referenced object or result of search in body.</td>
</tr>
<tr>
<td>400</td>
<td>Results set would contain more than _max_results objects (only generated if _max_results is negative).</td>
</tr>
<tr>
<td>404</td>
<td>Referenced object not found (if objref form is used, empty list and 200 is returned for empty search result)</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>requested_version</td>
<td>Actual requested version of the WAPI schema.</td>
</tr>
<tr>
<td>supported_objects</td>
<td>List of supported objects in the requested version.</td>
</tr>
<tr>
<td>supported_versions</td>
<td>List of all supported versions.</td>
</tr>
</tbody>
</table>

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):

```json
{
  "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):

```json
{
  "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 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.
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:
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>schema_version</td>
<td>The version of schema description requested.</td>
</tr>
<tr>
<td>wapi_primitive</td>
<td>Determines if the requested WAPI primitive is object, structure or function call.</td>
</tr>
<tr>
<td>supports_inline_funcall</td>
<td>Determines if the field can be initialized by calling an inline function.</td>
</tr>
<tr>
<td>doc</td>
<td>The documentation of this field. It’s applicable only when _get_doc=1 is used. The returned documentation string might contain ReStructuredText directives.</td>
</tr>
</tbody>
</table>

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):

```json
{
  "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/v2.7/grid?_schema=1&
_schema_version=2&_get_doc=1

Returns with a body (lists shortened and cut):

```json
{
  "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",
```
2.2 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 `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).

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_return_fields</td>
<td>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.</td>
</tr>
<tr>
<td>_return_fields+</td>
<td>Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).</td>
</tr>
</tbody>
</table>

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: Object Reference of the object created, returned as a string.

- 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

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Object created (success)</td>
</tr>
</tbody>
</table>

### 2.3 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 }... ]

**Description**  
PUT is used to update an existing object (given by the Object Reference, objref in the request). Only the fields supplied are updated (except as described for Use Flags).

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_return_fields</td>
<td>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.</td>
</tr>
<tr>
<td>_return_fields+</td>
<td>Specified list of fields (comma separated) will be returned in addition to the basic fields of the object (documented for each object).</td>
</tr>
</tbody>
</table>

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
**Object Reference of the object modified, returned as a string.** The object reference may have been changed by the operation.

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**

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Object updated (success)</td>
</tr>
</tbody>
</table>

### 2.4 DELETE

Delete Object: DELETE Method

The DELETE method is used to delete an object.

**Syntax** DELETE WAPI / objref [ ? option... ]

**Description** DELETE is used to delete an existing object (given by the Object Reference, objref in the request).

**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** Returns the Object Reference of the deleted object as a string.

**Return Status/Errors**

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Object deleted (success)</td>
</tr>
</tbody>
</table>
CHAPTER THREE

OBJECTS

3.1 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: ad_auth_service/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>
### ad_domain

**ad_domain**
The Active Directory domain to which this server belongs.

**Type**
String.

**Create**
The default value is *undefined*.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

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

### 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 default value is *undefined*.

**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

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

**Notes**
name is part of the base object.

### timeout

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

**Type**
Unsigned integer.

**Create**
The default value is 5.

**Search**
The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ad_domain</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_controllers</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.2 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 the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

#### 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**

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Enum values array.

**Valid values are:**
- API
- CLOUD_API
- GUI
- TAXII

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

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
</tbody>
</table>

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

**Notes**

comment is part of the base object.

<table>
<thead>
<tr>
<th>disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>disable</td>
</tr>
</tbody>
</table>

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.
**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**

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**

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

**Notes**
name is part of the base object.

**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)

**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)

**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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>access_method</td>
<td>[Enum]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>email_addresses</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_restricted_user_access</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>roles</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>superuser</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>user_access</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.3 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: adminrole/ZG5zLm5ldHdvcmtdmlldyQxMTk:default

### Object Reference

References to adminrole are *object references.*
Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes

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**

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**

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

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

**Notes**

name is part of the base object.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
</tbody>
</table>
3.4 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 a dmin User properties object reference has the following components:

- The name of the admin user

Example: adminuser/ZG5zLm5ldHvcmtfdmlldyQxMTk:user1

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin_groups</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

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

admin_groups is part of the base object.

**auth_type**

The authentication type for the admin user.

**Type**

String.

**Valid values are:**

- LOCAL
- REMOTE

**Create**

The default value is *LOCAL*.

**Search**

The field is not available for search.

**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**

The serial number of the client certificate.

**Type**

String.

**Create**

The default value is *empty*.

**Search**
The field is available for search via

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

### 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

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

**Notes**

Comment is part of the base object.

### 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

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`

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

---

### `extattrs`

**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`

**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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

Notes
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.

Search
The field is not available for search.

Notes
password is not readable.

**time_zone**

time_zone
The time zone for this admin user.

Type
String.

Valid values are:
  • (UTC + 10:00) Brisbane
  • (UTC + 10:00) Canberra, Sydney
  • (UTC + 10:00) Guam
  • (UTC + 10:00) Hobart
  • (UTC + 10:00) Melbourne, Victoria
  • (UTC + 10:00) Vladivostok
  • (UTC + 11:00) Magadan
  • (UTC + 11:00) Solomon Islands
  • (UTC + 12:00) Anadyr
  • (UTC + 12:00) Auckland
• (UTC + 12:00) Fiji
• (UTC + 12:00) Marshall Islands
• (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
• (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
• (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
• (UTC + 1:00) Sarajevo, Skopje, Sofia, Warsaw, Zagreb
• (UTC + 2:00) Athens, Vilnius
• (UTC + 2:00) Bucharest
• (UTC + 2:00) Cairo
• (UTC + 2:00) Harare
• (UTC + 2:00) Helsinki
• (UTC + 2:00) Jerusalem
• (UTC + 2:00) Kaliningrad
• (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
• (UTC + 3:00) Moscow, St. Petersburg, Volgograd
• (UTC + 3:00) Nairobi
• (UTC + 3:30) Tehran
• (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Create
The default value is (UTC) Coordinated Universal Time.

Search
The field is not available for search.

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

<table>
<thead>
<tr>
<th>use_time_zone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_time_zone</strong></td>
</tr>
<tr>
<td>Use flag for: time_zone</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <code>False</code>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>role</strong></td>
</tr>
<tr>
<td>The Role name to search for. If an empty string is specified, all users without Roles will be searched.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• <code>=</code> (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>role is a search-only field.</td>
</tr>
</tbody>
</table>
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin_groups</td>
<td>[String]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>auth_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ca_certificate_issuer</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>client_certificate_serial_number</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>= ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>email</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>enable_certificate_authentication</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N/A</td>
<td>: = ~</td>
</tr>
<tr>
<td>password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>time_zone</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_time_zone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>role</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.5 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/ZG5zLm5ldHdvcmtdmldyQxMTk: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 the Cloud Platform members.

<table>
<thead>
<tr>
<th>Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
</tr>
<tr>
<td>The Grid endpoint IPv4 Address or IPv6 Address or Fully-Qualified Domain Name (FQDN).</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>address cannot be updated.</td>
</tr>
<tr>
<td>address cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
<tr>
<td>The Grid endpoint descriptive comment.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>comment cannot be updated.</td>
</tr>
<tr>
<td>comment cannot be written.</td>
</tr>
</tbody>
</table>
**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**
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**
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
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
version cannot be updated.
version cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subscribing_member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.6 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 the 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**

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:

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

**Notes**

comment cannot be updated.

comment cannot be written.

**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

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

**Notes**
name is part of the base object.
name cannot be updated.
name cannot be written.

### 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**
type is part of the base object.
type cannot be updated.
type cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>
3.7 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 the 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

address cannot be updated.
address cannot be written.

**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

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

*Notes*

Comment is part of the base object.

Comment cannot be updated.

Comment cannot be written.

---

**creator**

The record creator.

*Type*

String.

*Valid values are:*

- DYNAMIC
- STATIC
- SYSTEM

*Search*

The field is available for search via

- ‘=’ (exact equality)

*Notes*

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

**Notes**
- `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**
- `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**
- `disable` cannot be updated.
- `disable` cannot be written.
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
dtc_obscured cannot be updated.
dtc_obscured cannot be written.

name

The name of the record.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
name is part of the base object.
name cannot be updated.
name cannot be written.

reclaimable

Determines if the record is reclaimable or not.

Type
Bool.

Search
The field is available for search via
- ‘=’ (exact equality)
Notes
reclaimable cannot be updated.
reclaimable cannot be written.

<table>
<thead>
<tr>
<th>record</th>
</tr>
</thead>
</table>

**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**
record cannot be updated.
record cannot be written.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

**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**
ttl cannot be updated.
ttl cannot be written.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
</table>

**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:mx
• record:naptr
• record:ptr
• record:srv
• record:txt
• sharedrecord:a
• sharedrecord:aaaa
• sharedrecord:mx
• sharedrecord:srv
• sharedrecord:txt

Search
The field is available for search via
• ‘=’ (exact equality)

Notes
type is part of the base object.
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

view is part of the base object.

view cannot be updated.

view cannot be written.

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

3.8 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/ZG5zLm5ldHdvemtfdmlldyQxMTk/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 the 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

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
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
comment is part of the base object.
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
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
expiration_time cannot be updated.
expiration_time cannot be written.

<table>
<thead>
<tr>
<th>last_updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_updated</td>
</tr>
<tr>
<td>The time when the record associated with the allrpzrecords object was last updated.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>last_updated cannot be updated.</td>
</tr>
<tr>
<td>last_updated cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~:=’ (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>name is part of the base object.</td>
</tr>
<tr>
<td>name cannot be updated.</td>
</tr>
<tr>
<td>name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>record</th>
</tr>
</thead>
<tbody>
<tr>
<td>record</td>
</tr>
</tbody>
</table>
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**
record cannot be updated.
record cannot be written.

---

**rpz_rule**

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

**Type**
String.

**Valid values are:**
- BlockNoDataClientIpaddr
- BlockNoDataDomain
- BlockNoDataIpaddr
- BlockNxdomainClientIpaddr
- BlockNxdomainDomain
- BlockNxdomainIpaddr
- PassthruClientIpaddr
- PassthruDomain
- PassthruIpaddr
- SubstituteAAAARecord
- SubstituteARecord
- SubstituteCName
- SubstituteClientIPAddressCname
- SubstituteIPAddressCname
- SubstituteIPv4AddressRecord
- SubstituteIPv6AddressRecord
- SubstituteMXRecord
- SubstituteNAPTRRecord
- SubstitutePTRRecord
- SubstituteSRVRecord
• SubstituteTXTRecord

Search
The field is available for search via
  • ‘=’ (exact equality)

Notes
rpz_rule cannot be updated.
rpz_rule cannot be written.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

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
ttl cannot be updated.
ttl cannot be written.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
</table>

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: mx
  • record: rpz: naptr
• record:rpz:ptr
• record:rpz:srv
• record:rpz:txt

**Search**
The field is available for search via

• ‘=’ (exact equality)

**Notes**
type is part of the base object.
type cannot be updated.
type cannot be written.

---

**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**
view is part of the base object.
view cannot be updated.
view cannot be written.

---

**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
zone is part of the base object.
zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>alert_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>expiration_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_updated</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>record</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_rule</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.9 approvalworkflow : The approval workflow object.

The approval workflow object support 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 approver group. You can also define when and to whom e-mail notifications are 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:

- The submitter group name

**Example:** approvalworkflow/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:group-1

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>approval_group</td>
<td></td>
</tr>
<tr>
<td>submitter_group</td>
<td></td>
</tr>
</tbody>
</table>

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
approval_group is part of the base object.

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**

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**

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**

Determines whether approval task notifications are enabled.

Type

Bool.

Create

The default value is True.
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

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

Determines whether e-mail notifications to admin group’s e-mail address is enabled.

Type

Bool.

Create

The default value is True.

Search

The field is not available for search.
enable_notify_user

Determines whether e-mail notifications to admin member’s e-mail address is enabled.

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

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

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

Determines whether succeeded task notifications are enabled.

Type
Bool.
**Create**
The default value is *True*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>extattrs</th>
</tr>
</thead>
</table>
| **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*.

<table>
<thead>
<tr>
<th>failed_notify_to</th>
</tr>
</thead>
</table>
| **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.

<table>
<thead>
<tr>
<th>rejected_notify_to</th>
</tr>
</thead>
</table>
| **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

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

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**

submitter_group is part of the base object.

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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>approval_group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>approval_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>approved_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>approver_comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_approval_notify</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_approved_notify</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_failed_notify</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_notify_group</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_notify_user</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enableRejected_notify</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_rescheduled_notify</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_succeeded_notify</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>failed_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rejected_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rescheduled_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>submitter_comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>submitter_group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>succeeded_notify_to</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ticket_number</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.10 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 following components:

- The ‘authpolicy’ string

Example: authpolicy/ZG5zLm5ldHdvcmtdmlldyQxMTk:authpolicy
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 the 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.

admin_groups

admin_groups

The list of names of local admin 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.

Type

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

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**

default_group is part of the base object.

**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**

usage_type is part of the base object.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin_groups</td>
<td>[String]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auth_services</td>
<td>obj</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>default_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>usage_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>
### 3.11 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: awsrte53taskgroup/ZG5zLmJpbmRfY25h:extdatagroup

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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_status`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>consolidated_view</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>grid_member</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>network_view</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

#### 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
account_id is part of the base object.
account_id cannot be updated.
account_id cannot be written.

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

Notes
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
consolidate_zones cannot be updated.
**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**

consolidated_view cannot be updated.

**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**

disabled is part of the base object.

**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)

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

*Notes*
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*

network_view cannot be updated.
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
network_view_mapping_policy cannot be updated.

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
sync_status is part of the base object.
sync_status cannot be updated.
sync_status cannot be written.
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.

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

Output fields
None

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>account_id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>consolidate_zones</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>consolidated_view</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>grid_member</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>network_view_mapping_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>sync_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>task_list</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Required in some cases, see detailed field description above.
3.12 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: awsuser/ZG5zLmJpbmRfY25h:AKIAIY5E3YKTIDGJKKQ

**Restrictions**

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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, name`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>access_key_id</td>
<td></td>
</tr>
<tr>
<td>account_id</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>secret_access_key</td>
<td></td>
</tr>
</tbody>
</table>

**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
Notes
access_key_id is part of the base object.

<table>
<thead>
<tr>
<th>account_id</th>
</tr>
</thead>
</table>

account_id
The AWS Account ID of this AWS user. Maximum 64 characters.
Type
String.
Create
The field is required on creation.
Search
The field is available for search via
  • ‘=’ (exact equality)
Notes
account_id is part of the base object.

<table>
<thead>
<tr>
<th>last_used</th>
</tr>
</thead>
</table>

last_used
The timestamp when this AWS user credentials was last used.
Type
Timestamp.
Search
The field is not available for search.
Notes
last_used cannot be updated.
last_used cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

name
The AWS user name. Maximum 64 characters.
Type
String.
Create
The field is required on creation.
Search
The field is available for search via

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

Notes

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

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

### 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**

status cannot be updated.

status cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>access_key_id</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>account_id</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>last_used</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>nios_user_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>secret_access_key</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.13 bfdtemplate : BFD template object.

The Bidirectional Forwarding Detection (BFD) template contains a configuration of advanced BFD settings such as authentication and timer intervals.

### 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: bfdtemplate/ZG5zLmJpbmRfY25h:templatename
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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

authentication_key

authentication_key

The authentication key for BFD protocol message-digest authentication.

Type
String.

Create
The default value is empty.

Search
The field is not available for search.

Notes
authentication_key is not readable.

authentication_key_id

authentication_key_id

The authentication key identifier for BFD protocol authentication. Valid values are between 1 and 255.

Type
Unsigned integer.

Create
The default value is 1.

Search
The field is not available for search.
**authentication_type**

*authentication_type*

The authentication type for BFD protocol.

**Type**

String.

**Valid values are:**

- MD5
- METICULOUS-MD5
- METICULOUS-SHA1
- NONE
- SHA1

**Create**

The default value is *NONE*.

**Search**

The field is not available for search.

---

**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.

**Type**

Unsigned integer.

**Create**

The default value is *100*.

**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.

**Type**
Unsigned integer.

**Create**
The default value is 100.

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

**Notes**
name is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_key</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>authentication_key_id</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>authentication_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>detection_multiplier</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>min_rx_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>min_tx_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
</tbody>
</table>
3.14 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: bulkhost/ZG5zLm5ldHdvcmskMTEuMC4wLjAvOC8xMQ:zone.com/prefix/1.1.1.1/1.1.1.3

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>end_addr</td>
<td></td>
</tr>
<tr>
<td>prefix</td>
<td></td>
</tr>
<tr>
<td>start_addr</td>
<td></td>
</tr>
<tr>
<td>zone</td>
<td></td>
</tr>
</tbody>
</table>

cloud_info

cloud_info

The cloud API related information.

Type

A/An Cloud Information struct.
**comment**

*comment*

The descriptive comment.

*Type*

String.

*Create*

The default value is *empty*.

*Search*

The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

*Notes*

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)
The prefix, in punycode format, for the bulk host.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
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**  
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**  
network_view cannot be updated.  
network_view cannot be written.
policy

The hostname policy for records under the bulk host parent zone.

Type

String.

Search

The field is not available for search.

Notes

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

• ‘=’ (exact equality)
• ‘~’ (regular expression)

Notes

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)
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>start_addr</td>
<td>The first IP address in the address range for the bulk host.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>The field is required on creation.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
<tr>
<td>Notes</td>
<td>template_format cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>template_format cannot be written.</td>
</tr>
<tr>
<td>template_format</td>
<td>The bulk host name template format.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>template_format cannot be updated.</td>
</tr>
<tr>
<td>ttl</td>
<td>The Time to Live (TTL) value.</td>
</tr>
<tr>
<td>Type</td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
<tr>
<td>Notes</td>
<td>ttl is associated with the field use_ttl (see use flag).</td>
</tr>
</tbody>
</table>

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**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.

---

**view**

*view*

The view for the bulk host.

**Type**

String.

**Create**

The default value is *undefined*.

**Search**

The field is available for search via

- ‘=” (exact equality)
- ‘~=” (regular expression)
The zone name.

**Type**
String.

**Create**
The field is required on creation.

**Search**
The field is available for search via
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_prefix</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>end_addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name_template</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>policy</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>prefix</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>reverse</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>start_addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>template_format</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>use_name_template</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
</tbody>
</table>

### 3.15 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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>template_format</td>
<td></td>
</tr>
<tr>
<td>template_name</td>
<td></td>
</tr>
</tbody>
</table>

**is_grid_default**

**is_grid_default**

True if this template is Grid default.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

is_grid_default is part of the base object.

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

**Notes**

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

**Notes**

*template_name* is part of the base object.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>is_grid_default</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>pre_defined</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template_format</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>template_name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

### 3.16 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: cacertificate/SW5mb2Jsb3ggQXBwbGlhbmNl:some_authority

#### 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 the 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, valid_not_after, valid_not_before.

**distinguished_name**

The certificate subject name.

**Type**

String.
Search
The field is available for search via
- ‘=’ (exact equality)

Notes
distinguished_name is part of the base object.
distinguished_name cannot be updated.
distinguished_name cannot be written.

<table>
<thead>
<tr>
<th>issuer</th>
</tr>
</thead>
</table>

issuer
The certificate issuer subject name.

Type
String.

Search
The field is available for search via
- ‘=’ (exact equality)

Notes
issuer is part of the base object.
issuer cannot be updated.
issuer cannot be written.

<table>
<thead>
<tr>
<th>serial</th>
</tr>
</thead>
</table>

serial
The certificate serial number in hex format.

Type
String.

Search
The field is available for search via
- ‘=’ (exact equality)

Notes
serial is part of the base object.
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**

*used_by* is part of the base object.

*used_by* cannot be updated.

*used_by* 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**

*valid_not_after* is part of the base object.

*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**

*valid_not_before* is part of the base object.

*valid_not_before* cannot be updated.

*valid_not_before* cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>distinguished_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>issuer</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>serial</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>used_by</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_not_after</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_not_before</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.17 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/ZG5zLm5ldHdvcmtdmldyQxMTk: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 the 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**

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**

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**

name is part of the base object.

name cannot be updated.

name cannot be written.
### 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**
- object_counts cannot be updated.
- object_counts cannot be written.

### 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**
- percent_used is part of the base object.
- percent_used cannot be updated.
- percent_used cannot be written.

### role

The Grid member role.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
- role is part of the base object.
- role cannot be updated.
- role cannot be written.
**total_objects**

The total number of objects created by the Grid member.

**Type**
Unsigned integer.

**Search**
The field is not available for search.

**Notes**
total_objects cannot be updated.
total_objects cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>hardware_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max_capacity</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>object_counts</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>percent_used</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>role</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>total_objects</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.18 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: captiveportal/ZG5zLm5ldHdvcmtdmldyQxMTk:member.com

**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 the 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**.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>authn_server_group</strong></td>
<td>The authentication server group assigned to this captive portal.</td>
</tr>
<tr>
<td><strong>company_name</strong></td>
<td>The company name that appears in the guest registration page.</td>
</tr>
<tr>
<td><strong>enable_syslog_auth_failure</strong></td>
<td>Determines if authentication failures are logged to syslog or not.</td>
</tr>
</tbody>
</table>

**authn_server_group**

- **Type**: String.
- **Create**: The default value is *empty*.
- **Search**: The field is not available for search.

**company_name**

- **Type**: String.
- **Create**: The default value is *empty*.
- **Search**: The field is not available for search.

**enable_syslog_auth_failure**

- **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

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.

```plaintext
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.

```plaintext
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.

```plaintext
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.

<table>
<thead>
<tr>
<th>guest_custom_field4_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>guest_custom_field4_name</td>
</tr>
<tr>
<td>The name of the custom field that you are adding to the guest registration page.</td>
</tr>
<tr>
<td><strong>Type</strong> String.</td>
</tr>
<tr>
<td><strong>Create</strong> The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>guest_custom_field4_required</th>
</tr>
</thead>
<tbody>
<tr>
<td>guest_custom_field4_required</td>
</tr>
<tr>
<td>Determines if the custom field is required or not.</td>
</tr>
<tr>
<td><strong>Type</strong> Bool.</td>
</tr>
<tr>
<td><strong>Create</strong> The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>guest_email_required</th>
</tr>
</thead>
<tbody>
<tr>
<td>guest_email_required</td>
</tr>
<tr>
<td>Determines if the email address of the guest is required or not.</td>
</tr>
<tr>
<td><strong>Type</strong> Bool.</td>
</tr>
<tr>
<td><strong>Create</strong> The default value is <em>True</em>.</td>
</tr>
<tr>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
</tbody>
</table>
**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**

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**

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**

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

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

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

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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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**
name is part of the base object.
nname cannot be updated.
nname cannot be written.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
</table>

**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.
**service_enabled**

**service_enabled**
Determines if the captive portal service is enabled or not.

**Type**
Bool.

**Create**
The default value is \textit{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 \textit{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.

---

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authn_server_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>company_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_syslog_auth_failure</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_syslog_auth_success</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_user_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>encryption</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>files</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field1_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.1 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>guest_custom_field1_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field2_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field2_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field3_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field3_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field4_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_custom_field4_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_email_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_first_name_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_last_name_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_middle_name_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guest_phone_required</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>helpdesk_message</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>listen_address_ip</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>listen_address_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>service_enabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>syslog_auth_failure_level</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>syslog_auth_success_level</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>welcome_message</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>


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: certificate:authservice/ZG5zLm5ldHdvcmtdmldyQxMTk:Infoblox

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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_cert_subject`, `name`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ca_certificates</td>
<td></td>
</tr>
<tr>
<td>client_cert_subject</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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.
**client_cert_subject**

The client certificate subject name should begin with the value of this field so it can be associated with the certificate group during authentication.

**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

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

**Notes**

client_cert_subject is part of the base object.

---

**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

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

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

**Notes**
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.

<table>
<thead>
<tr>
<th><strong>remote_lookup_username</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>response_timeout</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>trust_model</strong></th>
</tr>
</thead>
</table>

**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.

**Function Calls**

```
function 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_populate_login</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ca_certificates</td>
<td>[obj]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_cert_subject</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: =~</td>
</tr>
<tr>
<td>disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_password_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_remote_lookup</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>ocsp_check</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ocsp_responders</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recovery_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_lookup_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_lookup_service</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_lookup_username</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>response_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>trust_model</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>user_match_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.20 ciscoise:endpoint : Cisco ISE Endpoint object.

The object contains information and configuration for third-party Cisco ISE servers integration, configuration for Cisco ISE publishing and subscription.

Object Reference

References to ciscoise:endpoint are object references.

The name part of a Cisco ISE endpoint reference has the following components:

• address of the Cisco ISE endpoint

Example: ciscoise:endpoint/ZG5zLm5ldHdvcmtfdmlldyQxMTk:10.0.0.10

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 the Cloud Platform members.
These fields are actual members of the object; 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, resolved_address, type, version.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td></td>
</tr>
<tr>
<td>bulk_download_certificate_token</td>
<td></td>
</tr>
<tr>
<td>client_certificate_token</td>
<td></td>
</tr>
<tr>
<td>subscribe_settings</td>
<td></td>
</tr>
<tr>
<td>subscribing_member</td>
<td></td>
</tr>
<tr>
<td>version</td>
<td></td>
</tr>
</tbody>
</table>

address

The Cisco ISE 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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
address is part of the base object.

bulk_download_certificate_subject

The Cisco ISE bulk download certificate subject.

Type
String.

Search
The field is not available for search.

Notes
bulk_download_certificate_subject cannot be updated.
bulk_download_certificate_subject cannot be written.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bulk_download_certificate_token</strong></td>
<td>The token returned by <code>the uploadinit function call in object fileop</code> for Cisco ISE bulk download certificate.</td>
</tr>
<tr>
<td><strong>bulk_download_certificate_valid_from</strong></td>
<td>The Cisco ISE bulk download certificate valid from.</td>
</tr>
<tr>
<td><strong>bulk_download_certificate_valid_to</strong></td>
<td>The Cisco ISE bulk download certificate valid to.</td>
</tr>
<tr>
<td>Field Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>client_certificate_subject</td>
<td>The Cisco ISE client certificate subject.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>client_certificate_token</td>
<td>The token returned by the uploadinit function call in object fileop for Cisco ISE client certificate.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>client_certificate_valid_from</td>
<td>The Cisco ISE client certificate valid from.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**client_certificate_valid_to**

The Cisco ISE client certificate valid to.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
client_certificate_valid_to cannot be updated.
client_certificate_valid_to cannot be written.

**comment**

The Cisco ISE endpoint descriptive comment.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**connection_status**

The Cisco ISE connection status.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
connection_status cannot be updated.
connection_status cannot be written.
**connection_timeout**

The Cisco ISE connection timeout.

**Type**
Unsigned integer.

**Create**
The default value is 10.

**Search**
The field is not available for search.

**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**
disable is part of the base object.

**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.
### network_view

The Cisco ISE network view name.

**Type**

String.

**Create**

The default value is *undefined*.

**Search**

The field is available for search via

- ‘=’ (exact equality)

### 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.

### resolved_address

The resolved *IPv4 Address* or *IPv6 Address* of the Cisco ISE endpoint.

**Type**

String.

**Search**

The field is available for search via

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**

resolved_address is part of the base object.

resolved_address cannot be updated.

resolved_address cannot be written.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Create</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>resolved_secondary_address</td>
<td>The resolved IPv4 Address or IPv6 Address of the Cisco ISE endpoint.</td>
<td>String</td>
<td></td>
<td></td>
<td>resolved_secondary_address cannot be updated.</td>
</tr>
<tr>
<td>resolved_secondary_address</td>
<td>The resolved IPv4 Address or IPv6 Address of the Cisco ISE endpoint.</td>
<td>String</td>
<td></td>
<td></td>
<td>resolved_secondary_address cannot be written.</td>
</tr>
<tr>
<td>secondary_address</td>
<td>The Cisco ISE endpoint secondary IPv4 Address or IPv6 Address or Fully-Qualified Domain Name (FQDN)</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>subscribe_settings</td>
<td>The Cisco ISE subscribe settings.</td>
<td>A/An Cisco ISE subscribe settings struct</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
subscribing_member

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

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

- '=' (exact equality)

type

The Cisco ISE endpoint type.

Type

String.

Valid values are:

- TYPE_CISCO

Create

The default value is undefined.

Search

The field is available for search via

- '=' (exact equality)

Notes

type is part of the base object.

version

The Cisco ISE endpoint version.

Type

String.

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

Valid values are:

- VERSION_1_3
- VERSION_1_4
• VERSION_2_0

Create
The field is required on creation.

Search
The field is available for search via
• ‘=’ (exact equality)

Notes
version is part of the base object.

**Function Calls**

**test_connection**

Use this function to test a connection to the Cisco 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: “CANNOT_RESOLVE_FQDN”, “FAIL”, “OK”, “WARN”) The result of connection testing to the syslog server.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
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<td>Y</td>
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<td>N</td>
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<td>N/A</td>
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<td>N/A</td>
</tr>
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</tr>
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<tr>
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<td>Y</td>
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</tr>
<tr>
<td>client_certificate_valid_to</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>: = ~</td>
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<td>Y</td>
<td>N</td>
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<td>N</td>
<td>N</td>
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<td>=</td>
</tr>
<tr>
<td>publish_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>resolved_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
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<td>N</td>
<td>= ~</td>
</tr>
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<td>N</td>
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<td>: = ~</td>
</tr>
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<tr>
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<td>N</td>
<td>Y</td>
<td>=</td>
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<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.21 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: csvimporttask/ZG5zLm5ldHdvemtfdmlldyQxMTk:1

#### 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 the 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, 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`.

### 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 part of the base object.
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**
admin_name is part of the base object.
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**
end_time is part of the base object.
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**
file_name is part of the base object.
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**
file_size is part of the base object.
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**
import_id is part of the base object.
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**
lines_failed is part of the base object.
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**
lines_processed is part of the base object.
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**
lines_warning is part of the base object.
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**
on_error is part of the base object.

**operation**

*operation*
The operation to execute.

**Type**
String.

**Valid values are:**
Create
The default value is `INSERT`.

Search
The field is not available for search.

Notes
operation is part of the base object.

<table>
<thead>
<tr>
<th>separator</th>
</tr>
</thead>
</table>

**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
separator is part of the base object.
separator cannot be updated.
separator cannot be written.

<table>
<thead>
<tr>
<th>start_time</th>
</tr>
</thead>
</table>

**start_time**

The start time of the import operation.

**Type**
Timestamp.

Search
The field is not available for search.
Notes

start_time is part of the base object.
start_time cannot be updated.
start_time cannot be written.

<table>
<thead>
<tr>
<th>status</th>
</tr>
</thead>
</table>

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
status is part of the base object.
status cannot be updated.
status cannot be written.

<table>
<thead>
<tr>
<th>update_method</th>
</tr>
</thead>
</table>

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
update_method is part of the base object.

**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
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<td>Y</td>
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<td>Y</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
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<td>N/A</td>
</tr>
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<td>Y</td>
<td>N/A</td>
</tr>
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<td>N/A</td>
</tr>
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<td>Y</td>
<td>N/A</td>
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<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N/A</td>
</tr>
<tr>
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<td>String</td>
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<td>Y</td>
<td>N/A</td>
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<td>update_method</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**3.22 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:** db_objects/Li51c2VyX3Byb2ZpbGUkMjI:322:32

**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 the 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**

last_sequence_id is part of the base object.
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**
object is part of the base object.
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**
object_type is part of the base object.
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
unique_id is part of the base object.
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

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:
• 2.5

Search
The field is available for search via
• ‘=’ (exact equality)

Notes
all_object_types_supported_in_version is a search-only field.

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**

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**

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_sequence_id</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>object</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_object_types_supported_in_version</td>
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<td>=</td>
</tr>
<tr>
<td>exclude_deleted</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>object_types</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>start_sequence_id</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>
**3.23 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: dbsnapshot/b25lLmRiX3NuYXBzaG90JDA:1465912167/Test%20snapshot

### 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 the 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*.

#### comment

*comment*

The descriptive comment.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

comment is part of the base object.

comment cannot be updated.

comment cannot be written.
**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**

- timestamp is part of the base object.
- timestamp cannot be updated.
- timestamp 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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>timestamp</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.24 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: ddnsprincipalcluster/ZG5zLmJpbmRfY25h:ddnsprincipalcluster1

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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>group</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Notes**

comment is part of the base object.

<table>
<thead>
<tr>
<th>group</th>
</tr>
</thead>
</table>

**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**

group is part of the base object.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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

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

**Notes**

name is part of the base object.
The list of equivalent principals.

Type
String array.

Create
The default value is empty.

Search
The field is not available for search.

Notes
principals is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>principals</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.25 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: ddns:principalcluster:group/ZG5zLmJpbmRfY25h: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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes
name is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusters</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
</tbody>
</table>

### 3.26 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)
The object cannot be managed on the 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**.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>object_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.27 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 the 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**

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**

dhcp_utilization is part of the base object.
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**
dhcp_utilization_status is part of the base object.
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**
dynamic_hosts is part of the base object.
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
static_hosts is part of the base object.
static_hosts cannot be updated.
static_hosts cannot be written.

<table>
<thead>
<tr>
<th>total_hosts</th>
</tr>
</thead>
</table>

**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**
total_hosts is part of the base object.
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.

<table>
<thead>
<tr>
<th>statistics_object</th>
</tr>
</thead>
</table>

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>dhcp_utilization</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_utilization_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>dynamic_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>static_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>total_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>statistics_object</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

3.28 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: dhcpfailover/ZG5zLm5ldHdvcmtdmldyQxMTk:dhcpf1

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on the 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.

The following fields are required to create this object:
### 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**

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

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

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

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**

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**

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**

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**

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**

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**
ms_association_mode cannot be updated.
ms_association_mode cannot be written.

**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.
<table>
<thead>
<tr>
<th><strong>ms_enable_switchover_interval</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_enable_switchover_interval</strong></td>
</tr>
<tr>
<td>Determines if the switchover interval is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ms_failover_mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_failover_mode</strong></td>
</tr>
<tr>
<td>The mode for the failover association.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>- HOTSTANDBY</td>
</tr>
<tr>
<td>- LOADBALANCE</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>LOADBALANCE</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ms_failover_partner</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_failover_partner</strong></td>
</tr>
<tr>
<td>The failover partner defined in the association for the Microsoft Server.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required only when creating a DHCP failover object associated with a Microsoft Server.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td><em>ms_failover_partner</em> cannot be updated.</td>
</tr>
</tbody>
</table>
### 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**

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
ms_previous_state cannot be updated.
ms_previous_state cannot be written.

<table>
<thead>
<tr>
<th>ms_server</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_server</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ms_shared_secret</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_shared_secret</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>
### 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**
- 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**

The name of a DHCP failover object.

**Type**
String.

**Create**
The field is required on creation.

**Search**
The field is available for search via
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
name is part of the base object.

**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**

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**
**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**
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**

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**

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**

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
secondary_state cannot be updated.
secondary_state cannot be written.

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 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 flag for: recycle_leases

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>association_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>failover_port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>load_balance_split</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Table 3.2 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>max_client_lead_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max_load_balance_delay</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max_response_delay</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max_unacked_updates</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_association_mode</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_enable_authentication</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_enable_switchover_interval</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_failover_mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_failover_partner</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_hotstandby_partner_role</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_is_conflict</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_previous_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_shared_secret</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_server</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_switchover_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>primary</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>primary_server_type</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>primary_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>secondary</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>secondary_server_type</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_failover_port</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ms_switchover_interval</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

### 3.29 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**: dhcpoptiondefinition/ ZG5zLm9wdGlvbI9kZWZpbml0aW9uJGlusm8uLmZhbHNlLjI1Mg:

#### 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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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
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
type is part of the base object.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>space</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

3.30dhcpoptionspace : 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:** dhcpoptionspace/ZG5zLm9wdGlvbl9zcGFjZSRIbG94Li5mYWxzZQ:blox

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

*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

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

**Notes**

*comment* is part of the base object.
### 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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

name is part of the base object.

### 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

The type of a DHCP option space object.

**Type**

String.

**Valid values are:**
- PREDEFINED_DHCP
- VENDOR_SPACE
3.31 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 the 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 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. The name of the file shown to user.
- **token** (String). This parameter is mandatory. The token returned by the uploadinit function call.

**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

3.32 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 the 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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
address is part of the base object.
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**
address_ref cannot be updated.
address_ref cannot be written.

---

**cap_admin_status_ind**

**cap_admin_status_ind**

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Determines whether to modify the admin status of an interface of the device.

**Type**

`Bool`.

**Search**

The field is not available for search.

**Notes**

cap_admin_status_ind cannot be updated.
cap_admin_status_ind cannot be written.

---

**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**

cap_admin_status_na_reason cannot be updated.
cap_admin_status_na_reason cannot be written.

---

**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**

cap_description_ind cannot be updated.
cap_description_ind cannot be written.

---

**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**
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**
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**
cap_net_deprovisioning_na_reason cannot be updated.
cap_net_deprovisioning_na_reason cannot be written.
**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**

cap_net_provisioning_ind cannot be updated.
cap_net_provisioning_ind cannot be written.

**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**

cap_net_provisioning_na_reason cannot be updated.
cap_net_provisioning_na_reason cannot be written.

**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**

cap_net_vlan_provisioning_ind cannot be updated.
cap_net_vlan_provisioning_ind cannot be written.
<table>
<thead>
<tr>
<th>cap_net_vlan_provisioning_na_reason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cap_net_vlan_provisioning_na_reason</strong></td>
</tr>
<tr>
<td>The reason that network provisioning on VLAN is not available.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>cap_net_vlan_provisioning_na_reason cannot be updated.</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>cap_vlan_assignment_ind</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cap_vlan_assignment_ind</strong></td>
</tr>
<tr>
<td>Determines whether to modify the VLAN assignment of an interface of the device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>cap_vlan_assignment_ind cannot be updated.</td>
</tr>
<tr>
<td>cap_vlan_assignment_ind cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>cap_vlan_assignment_na_reason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cap_vlan_assignment_na_reason</strong></td>
</tr>
<tr>
<td>The reason that VLAN assignment action is not available.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>cap_vlan_assignment_na_reason cannot be updated.</td>
</tr>
<tr>
<td>cap_vlan_assignment_na_reason cannot be written.</td>
</tr>
</tbody>
</table>
### 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**

- 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**

- 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**

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

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

**Notes**
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**
ms_ad_user_data cannot be updated.
ms_ad_user_data cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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)
- `~=` (regular expression)

**Notes**
name is part of the base object.
name cannot be updated.
name cannot be written.

<table>
<thead>
<tr>
<th>neighbors</th>
</tr>
</thead>
</table>

**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**
neighbors cannot be updated.
neighbors cannot be written.
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
network cannot be updated.
network cannot be written.

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
network_infos cannot be updated.
network_infos cannot be written.

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
network_view is part of the base object.
network_view cannot be updated.
network_view cannot be written.
networks

The list of networks to which the device interfaces belong.

Type
An array of the following objects: network, ipv6network.
This field supports nested return fields as described here.

Search
The field is not available for search.

Notes
networks cannot be updated.
networks cannot be written.

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

Notes
os_version cannot be updated.
os_version cannot be written.

port_stats

The port statistics of the device.

Type
A/An Port statistics struct.

Search
The field is not available for search.

Notes
port_stats cannot be updated.
port_stats cannot be written.

<table>
<thead>
<tr>
<th><strong>type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>type</strong></td>
</tr>
<tr>
<td>The type of the device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>• <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>• <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>type cannot be updated.</td>
</tr>
<tr>
<td>type cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>vendor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>vendor</strong></td>
</tr>
<tr>
<td>The vendor name of the device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
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<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>• <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>• <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>vendor cannot be updated.</td>
</tr>
<tr>
<td>vendor cannot be written.</td>
</tr>
</tbody>
</table>
### 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**
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

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
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<th>Search</th>
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<td>Y</td>
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</tr>
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<td>address_ref</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_admin_status_ind</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_admin_status_na_reason</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_description_ind</td>
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<td>N/A</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<th>Base</th>
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<td>N/A</td>
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<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>N/A</td>
</tr>
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<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>String</td>
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<td>Y</td>
<td>N</td>
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<td>description</td>
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<td>Extattr</td>
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<td>N</td>
<td>N</td>
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</tr>
<tr>
<td>interfaces</td>
<td>[obj]</td>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>: = ~</td>
</tr>
<tr>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
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<tr>
<td>neighbors</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network_infos</td>
<td>[struct]</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>networks</td>
<td>obj</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>port_stats</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>vendor</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>vlan_infos</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Search-only Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovery_member</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.33 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 the 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
component_name is part of the base object.
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
description is part of the base object.
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**
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**
model is part of the base object.
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
serial is part of the base object.
serial cannot be updated.
serial cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>component_name</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>description</td>
<td>String</td>
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<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>device</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>model</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>serial</td>
<td>String</td>
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<td>Y</td>
<td>N/A</td>
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<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.34 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 the 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
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
admin_status_task_info cannot be updated.
admin_status_task_info 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**
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**
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**
cap_if_description_ind cannot be updated.
cap_if_description_ind cannot be written.
**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**
cap_if_description_na_reason cannot be updated.
cap_if_description_na_reason cannot be written.

**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**
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**

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**
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

determines whether to deprovision a IPv6 network from the interfaces.

**Type**
- Bool.

**Search**
The field is not available for search.

**Notes**
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

deep IPv6 network deprovision reason.

**Type**
- String.
  - Values with leading or trailing white space are not valid for this field.

**Search**
The field is not available for search.

**Notes**
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

determines whether to modify the IPv4 network associated to the interface.

**Type**
- Bool.

**Search**
The field is not available for search.

**Notes**
cap_if_net_provisioning_ipv4_ind cannot be updated.
cap_if_net_provisioning_ipv4_ind cannot be written.
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<tr>
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<td>The reason that IPv4 network provisioning is not available.</td>
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<tr>
<td><strong>Type</strong></td>
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<tr>
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</tr>
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<td><strong>Notes</strong></td>
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</table>

<table>
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</thead>
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<tr>
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<td>Determines whether to modify the IPv6 network associated to the interface.</td>
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<td><strong>Type</strong></td>
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<tr>
<td>cap_if_net_provisioning_ipv6_ind cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>cap_if_net_provisioning_ipv6_na_reason</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cap_if_net_provisioning_ipv6_na_reason</strong></td>
</tr>
<tr>
<td>The reason that IPv6 network provisioning is not available.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>cap_if_net_provisioning_ipv6_na_reason cannot be updated.</td>
</tr>
<tr>
<td>cap_if_net_provisioning_ipv6_na_reason cannot be written.</td>
</tr>
</tbody>
</table>
### 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**
cap_if_vlan_assignment_ind cannot be updated.
cap_if_vlan_assignment_ind cannot be written.

### 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**
cap_if_vlan_assignment_na_reason cannot be updated.
cap_if_vlan_assignment_na_reason cannot be written.

### 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**
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**

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

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

**Notes**

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**
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**
device cannot be updated.
device cannot be written.

duplex

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**
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
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
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**

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**

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

**Notes**

mac cannot be updated.
mac cannot be written.
### 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**

- `ms_ad_user_data` cannot be updated.
- `ms_ad_user_data` cannot be written.

### 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

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

**Notes**

- `name` is part of the base object.
- `name` cannot be updated.
- `name` cannot be written.

### network_view

The name of the network view.

**Type**

String.

**Search**

The field is available for search via

- `=` (exact equality)
Notes
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
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
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**

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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**Notes**

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

**Notes**
type is part of the base object.
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**
vlan_info_task_info cannot be updated.
vlan_info_task_info cannot be written.
### 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**

- `vlan_infos` cannot be updated.
- `vlan_infos` cannot be written.

---

### 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**

- `vrf_description` cannot be updated.
- `vrf_description` cannot be written.

---

### 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**

- `vrf_name` cannot be updated.
- `vrf_name` cannot be written.
**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**

vrf_rd cannot be updated.

vrf_rd cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
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<th>Base</th>
<th>Search</th>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>admin_status_task_info</td>
<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_admin_status_ind</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_admin_status_na_reason</td>
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<td>N</td>
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<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N/A</td>
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<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_net_deprovisioning_ipv6_ind</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_net_deprovisioning_ipv6_na_reason</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_net_provisioning_ipv4_na_reason</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_net_provisioning_ipv6_ind</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_net_provisioning_ipv6_na_reason</td>
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<td>Y</td>
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<td>N/A</td>
</tr>
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</tr>
<tr>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_voice_vlan_ind</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cap_if_voice_vlan_na_reason</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>description</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>device</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>duplex</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ifaddr_infos</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>index</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_change</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>link_aggregation</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mac</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>
### Table 3.4 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>oper_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>port_fast</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>reserved_object</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>speed</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>vlan_info_task_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vlan_infos</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vrf_description</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>vrf_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>vrf_rd</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.35 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 the 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**.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>address</strong></td>
<td>The <em>IPv4 Address</em> or <em>IPv6 Address</em> of the device neighbor. Type: <em>String.</em> Search: not available. Notes: address is part of the base object. address cannot be updated. address cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>address_ref</strong></td>
<td>The ref to the management IP address of the device neighbor. Type: <em>String.</em> Search: not available. Notes: address_ref is part of the base object. address_ref cannot be updated. address_ref cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>device</strong></td>
<td></td>
</tr>
</tbody>
</table>
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**

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**

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**

mac is part of the base object.

mac cannot be updated.

mac cannot be written.
**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**

name is part of the base object.

name cannot be updated.

name cannot be written.

**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**

vlan_infos cannot be updated.

vlan_infos cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>address_ref</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>device</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
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<td>String</td>
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<td>Y</td>
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<td>N/A</td>
</tr>
<tr>
<td>mac</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
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<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.36 discovery:devicesupportbundle : Device support bundle object.

Infoblox frequently provides support files for additional network devices that may not previously be 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 the 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*

author is part of the base object.

author cannot be updated.

author cannot be written.
**integrated_ind**

**integrated_ind**
Determined 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**
inTEGRATED ind is part of the base object.
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
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~=.'` (regular expression)

**Notes**
name is part of the base object.
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**
version is part of the base object.
version cannot be updated.
version cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>author</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>integrated_ind</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.37 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: discovery:diagnostictask/ZG5zLmJpbmRfY25h:12.0.30.4/default

### 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 the 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.
**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**

The flag of the SNMP debug of the discovery diagnostic task.

**Type**

Bool.

**Create**

The default value is *undefined*.

**Search**

The field is not available for search.

**force_test**

The flag of the force test of the discovery diagnostic task.

**Type**

Bool.

**Create**

The default value is *undefined*.

**Search**

The field is not available for search.

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

**Notes**
ip_address is part of the base object.

---

**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**
network_view is part of the base object.

---

**start_time**

The time when discovery diagnostic task was started.

**Type**
Timestamp.

**Create**
The default value is *undefined*.

**Search**
The field is not available for search.

**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**
task_id is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>community_string</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>debug_snmp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>force_test</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ip_address</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>start_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>task_id</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

3.38 **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:** discovery:gridproperties/ZGlzY292ZJ5LmNsdXN0ZXJfZGlzY292ZJ5X3Byb3BlcnRpZXMkMA:Infoblox
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 the 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.

**advanced_polling_settings**

**advanced_polling_settings**

Discovery advanced polling settings.

**Type**

A/An The advanced polling settings structure struct.

**Create**

The default value is:

```python
{ '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.
**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**

Discovery basic polling settings.

**Type**

A/An *Basic Poll Settings* struct.

**Create**

The default value is:

```
{ 'auto_arp_refresh_before_switch_port_polling': True,
  'complete_ping_sweep': False,
  'device_profile': False,
  'netbios_scanning': False,
  'port_scanning': False,
  'smart_subnet_ping_sweep': False,
  'snmp_collection': True,
  'switch_port_data_collection_polling': 'PERIODIC',
  'switch_port_data_collection_polling_interval': 3600}
```

**Search**

The field is not available for search.

**cli_credentials**

Discovery CLI credentials.

**Type**

A/An *CLI credential* struct array.

**Create**

The default value is:
**discovery_blackout_setting**

**discovery_blackout_setting**
Discovery blackout setting.

**Type**
A/An *Blackout Setting* struct.

**Create**
The default value is:

```python
{ '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.

<table>
<thead>
<tr>
<th>enable_auto_conversion</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>enable_auto_updates</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>grid_name</th>
</tr>
</thead>
</table>

**grid_name**
The Grid name.

**Type**
String.

Search
The field is not available for search.

Notes
grid_name is part of the base object.
grid_name cannot be updated.
grid_name cannot be written.
ignore_conflict_duration

Determined 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.

Type
A/An Blackout Setting struct.

Create
The default value is:

{ 'enable_blackout': False }

Search
The field is not available for search.

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': 'telnet', 'port': 23, 'type': 'TCP' },
  { 'comment': 'smtp', 'port': 25, 'type': 'TCP' },]


```json
{
    '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': 'smtps', 'port': 465, 'type': 'TCP'},
    {'comment': 'printer', 'port': 515, 'type': 'TCP'},
    {'comment': 'sockets', '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.

---

### 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:

```c
empty
```

**Search**
The field is not available for search.
Function Calls

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 show an overall status of Failed in the Discovery Status GUI dialog. A 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 the gamut from fetching SNMP object ID information to 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. ) The host name of discovery member to use. You must specify discovery member or 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. ) The 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 discovery member or 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. The session ID returned by diagnostic function call.

start ( Integer. ). This parameter is mandatory. The start position of the text to return or returned.

Output fields

end ( Integer. ) The end position of the result text string.

session_id ( String. ) The session ID returned by diagnostic function call.

start ( Integer. ) The start position of the text to return or returned.

status ( String. Valid values are: “INPROGRESS”, “COMPLETED”, “FAILED” ) The status of diagnostic.

text ( String. ) The result text string.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>advanced_polling_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
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</tr>
<tr>
<td>auto_conversion_settings</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>basic_polling_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cli_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_blackout_setting</td>
<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_lookup_option</td>
<td>String</td>
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<td>N</td>
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<td>N/A</td>
</tr>
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<td>dns_lookup_throttle</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>enable_auto_updates</td>
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<td>N</td>
<td>N</td>
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</tr>
<tr>
<td>grid_name</td>
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<td>port_control_blackout_setting</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ports</td>
<td>[struct]</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>same_port_control_discovery_blackout</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmpv1v2_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>unmanaged_ips_timeout</td>
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<td>vrf_mapping_policy</td>
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<tr>
<td>vrf_mapping_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.39 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:** discovery:memberproperties/ ZGlzY292ZXJ5Lm1lbWJlc19kaXNjb3ZlcnJlcHJvcGVydGljcyQxMg:
  test_discovery.com

#### Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on the 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`.

### address

**address**
The Grid member address IP address.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
- address cannot be updated.
- address cannot be written.

### cisco_apic_configurations

**cisco_apic_configurations**
Cisco APIC configurations.

**Type**
A/An *The cisco apic configuration structure* struct array.

**Create**
The default value is:
- `empty`

**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 *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).

<table>
<thead>
<tr>
<th><strong>default_seed_routers</strong></th>
</tr>
</thead>
</table>

**default_seed_routers**
Default seed routers.

**Type**
A/An *The seed router structure* struct array.

**Search**
The field is not available for search.

**Notes**
default_seed_routers cannot be updated.
default_seed_routers cannot be written.

<table>
<thead>
<tr>
<th><strong>discovery_member</strong></th>
</tr>
</thead>
</table>

**discovery_member**
The name of the network discovery Grid member.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
discovery_member is part of the base object.
discovery_member cannot be updated.
discovery_member cannot be written.

<table>
<thead>
<tr>
<th><strong>enable_service</strong></th>
</tr>
</thead>
</table>

**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.**

**Type**
A/An *The seed router structure* struct array.

**Search**
The field is not available for search.

**Notes**
gateway_seed_routers cannot be updated.
gateway_seed_routers cannot be written.

### 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

**Discovery member role.**

**Type**
String.

**Valid values are:**

- DNM
- DNP
- NONE

---

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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)

<table>
<thead>
<tr>
<th>scan_interfaces</th>
</tr>
</thead>
</table>

**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:

```json
[{ 'network_view': 'default', 'scan_virtual_ip': None, 'type': 'LAN1'}]
```

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>seed_routers</th>
</tr>
</thead>
</table>

**seed_routers**
Seed routers.

**Type**
A/An *The seed router structure* struct array.

**Create**
The default value is:

```python
empty
```

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>snmpv1v2_credentials</th>
</tr>
</thead>
</table>

**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.*
### 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 flag for: snmpv3_credentials

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cisco_apic_configurations</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cli_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>default_seed_routers</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>enable_service</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>gateway_seed_routers</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_sa</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>role</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>scan_interfaces</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>seed_routers</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmpv1v2_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmpv3_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_cli_credentials</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_snmpv1v2_credentials</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_snmpv3_credentials</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.40 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 the 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.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
</table>

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

address is part of the base object.
address cannot be updated.
address cannot be written.

<table>
<thead>
<tr>
<th>cli_collection_enabled</th>
</tr>
</thead>
</table>

cli_collection_enabled

Indicates if CLI collection is enabled.

Type

Bool.

Search

The field is not available for search.

Notes

cli_collection_enabled cannot be updated.
cli_collection_enabled cannot be written.
### existence_info

The existence status information of the device.

**Type**

A/An *Status information* struct.

**Search**

The field is not available for search.

**Notes**

eexistence_info cannot be updated.
eexistence_info cannot be written.

### fingerprint_enabled

Indicates if DHCP fingerprinting is enabled.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

fingerprint_enabled cannot be updated.
fingerprint_enabled cannot be written.

### 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**

fingerprint_info cannot be updated.
fingerprint_info cannot be written.
The timestamp when the device was first discovered.

Type
Timestamp.

Search
The field is not available for search.

Notes
first_seen cannot be updated.
first_seen cannot be written.

The timestamp of the last detected interface property change.

Type
String.

Search
The field is not available for search.

Notes
last_action cannot be updated.
last_action cannot be written.

The timestamp when the device was last discovered.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_seen cannot be updated.
last_seen cannot be written.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_timestamp</td>
<td>The timestamp of the last executed action for the device.</td>
</tr>
<tr>
<td>Type</td>
<td>Timestamp.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>last_timestamp cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>last_timestamp cannot be written.</td>
</tr>
<tr>
<td>name</td>
<td>The name of the device.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>Notes</td>
<td>name is part of the base object.</td>
</tr>
<tr>
<td></td>
<td>name cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>name cannot be written.</td>
</tr>
<tr>
<td>network_view</td>
<td>The name of the network view in which this device resides.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
</tbody>
</table>
Notes
network_view is part of the base object.
network_view cannot be updated.
network_view cannot be written.

reachable_info
The reachable status information of the device.
Type
A/An Status information struct.
Search
The field is not available for search.
Notes
reachable_info cannot be updated.
reachable_info cannot be written.

snmp_collection_enabled
Indicates if SNMP collection is enabled.
Type
Bool.
Search
The field is not available for search.
Notes
snmp_collection_enabled cannot be updated.
snmp_collection_enabled cannot be written.

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
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**

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**

status is part of the base object.

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

type cannot be updated.
type cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: =</td>
</tr>
<tr>
<td>cli_collection_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>existence_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>fingerprint_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>fingerprint_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>first_seen</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_action</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_seen</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_timestamp</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: =</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>reachable_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmp_collection_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmp_collection_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmp_credential_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.41 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 the Cloud Platform members.

<table>
<thead>
<tr>
<th>Fields</th>
</tr>
</thead>
</table>

These fields are actual members of the object; 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**.

<table>
<thead>
<tr>
<th>description</th>
</tr>
</thead>
</table>

**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**
description cannot be updated.
description cannot be written.

<table>
<thead>
<tr>
<th>device</th>
</tr>
</thead>
</table>

**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**
device is part of the base object.
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
name is part of the base object.
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**
network_view is part of the base object.
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
route_distinguisher is part of the base object.
route_distinguisher cannot be updated.
route_distinguisher cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>device</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>route_distinguisher</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.42 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: discoverytask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:current

### 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 the 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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>csv_file_name</strong></td>
<td>The network discovery CSV file name.</td>
</tr>
<tr>
<td><strong>type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>notes</strong></td>
<td>csv_file_name cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>csv_file_name cannot be written.</td>
</tr>
<tr>
<td><strong>disable_ip_scanning</strong></td>
<td>Determines whether the IP scanning is disabled.</td>
</tr>
<tr>
<td><strong>type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>disable_vmware_scanning</strong></td>
<td>Determines whether the VMWare scanning is disabled.</td>
</tr>
<tr>
<td><strong>type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>discovery_task_oid</strong></td>
<td></td>
</tr>
</tbody>
</table>

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The discovery task identifier.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
discovery_task_oid is part of the base object.
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**
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

The 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

The name of the network view in which the 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

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**

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**

- state cannot be updated.
- state cannot be written.

**state_time**

The time when the network discovery process state was last updated.

Type

Timestamp.

**Search**

The field is not available for search.

**Notes**

- state_time cannot be updated.
- state_time cannot be written.

**status**

The network discovery process descriptive status.

Type

String.

**Search**
The field is not available for search.

Notes

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

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:

```json
[ { '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},
```
Search
The field is not available for search.

**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.

**v_network_view**

The name of the network view in which the 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**

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
The network discovery process warning.

Type
String.

Search
The field is not available for search.

Notes
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>csv_file_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable_ip_scanning</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable_vmware_scanning</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_task_oid</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>member_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>merge_data</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>networks</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ping_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ping_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>scheduled_run</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>state_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tcp_ports</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tcp_scan_technique</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>v_network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vservers</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>warning</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.43 distributionschedule: Distribution schedule object.

Distributing the software upgrade files involves unpacking the software files and loading the new software. When you perform a distribution, the NIOS appliance loads the new software code into an alternative disk partition which overwrites any previously saved version of code that is already there. 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/ ZG5zLm9wdGlhb9kZWZpbml0aW9uJGluZm8uLmZhbHNlLj1Mg: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 the 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

determinate whether the distribution schedule is active.

Type

Bool.

Create

The default value is undefined.

Search

The field is not available for search.

Notes

active is part of the base object.

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
time_zone

The time zone for distribution start time.

Type

String.

Valid values are:

- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
- (UTC + 10:00) Guam
- (UTC + 10:00) Hobart
- (UTC + 10:00) Melbourne, Victoria
- (UTC + 10:00) Vladivostok
- (UTC + 11:00) Magadan
- (UTC + 11:00) Solomon Islands
- (UTC + 12:00) Anadyr
- (UTC + 12:00) Auckland
- (UTC + 12:00) Fiji
- (UTC + 12:00) Marshall Islands
- (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
- (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
- (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
- (UTC + 1:00) Sarajevo, Skopje, Sofia, Warsaw, Zagreb
- (UTC + 2:00) Athens, Vilnius
- (UTC + 2:00) Bucharest
- (UTC + 2:00) Cairo
- (UTC + 2:00) Harare
- (UTC + 2:00) Helsinki
- (UTC + 2:00) Jerusalem
- (UTC + 2:00) Kaliningrad
- (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
- (UTC + 3:00) Moscow, St. Petersburg, Volgograd
- (UTC + 3:00) Nairobi
- (UTC + 3:30) Tehran
- (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Search
The field is not available for search.

Notes
time_zone is part of the base object.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>active</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>start_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>time_zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_groups</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.44 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. Infoblox DNS server provide 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: dns64group/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uW9uJGluZm8uLmZhbHNlJi1Mg:group1

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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 struct array.

Create
The default value is:

empty

Search
The field is not available for search.

---

**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**

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 struct array.
Create
The default value is:
empty

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
</tbody>
</table>
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

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>prefix</td>
</tr>
</tbody>
</table>
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

- ‘=’ (exact equality)
- ‘~=' (regular expression)
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>clients</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_dnssec_dns64</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>exclude</td>
<td>[struct]</td>
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<td>N/A</td>
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<tr>
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<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>mapped</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>prefix</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
</tbody>
</table>

### 3.45 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 the 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 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

---

### generate_maxminddb

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” ). This parameter is mandatory. The type of desired results.

**Output fields**

- **records** (An Query records struct array). The records array with result of a query call.
3.46 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 the 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

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

**Notes**

comment is part of the base object.

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**

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
dtc_server is part of the base object.
dtc_server cannot be updated.
dtc_server cannot be written.

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
record cannot be updated.
record cannot be written.

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**

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

**Search**

The field is available for search via

- ‘=’ (exact equality)

**Notes**

- type is part of the base object.
- type cannot be updated.
- type cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dtc_server</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>record</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.47 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: dtc:certificate/ZG5zLm5ldHdvcmtdmlldyQxMTk:DTCCert1
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 the 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.

**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**
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**
in_use cannot be updated.
in_use 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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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

**Notes**
certificate.serial is a search-only field.
**certificate.subject**

The Distinguished Name of the certificate to search for.

**Type**
String.

**Search**
The field is available for search via

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

**Notes**
certificate.subject is a search-only field.

**certificate.valid_not_after**

The expiry date of the certificate to search for.

**Type**
Timestamp.

**Search**
The field is available for search via

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘<=’ (less than or equal to)
- ‘>=’ (greater than or equal to)

**Notes**
certificate.valid_not_after is a search-only field.

**certificate.valid_not_before**

The validity start date of the certificate to search for.

**Type**
Timestamp.

**Search**
The field is available for search via

- ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
certificate.valid_not_before is a search-only field.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>certificate</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>in_use</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>certificate.issuer</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>certificate.serial</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>certificate.subject</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>certificate.valid_not_after</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>certificate.valid_not_before</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
</tr>
</tbody>
</table>

### 3.48 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: dtc:lbdn/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCLBDN1

### Restrictions

The object does not support the following operations:

• CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb_method</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>pools</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>topology</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**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.

**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

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

*Notes*  
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

**Extensible Attributes**

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**

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

**Notes**
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**
The maximum time, in seconds, for which client specific LBDN responses will be cached. Zero specifies no caching.

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

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

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

The list of resource record types supported by LBDN.

**Type**
Enum values array.

**Valid values are:**

- A
- AAAA
• CNAME
• NAPTR

**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.

### 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auth_zones</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N/A</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>health</td>
<td>struct</td>
<td>N</td>
<td>Y/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>lb_method</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>patterns</td>
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<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>persistence</td>
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<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>pools</td>
<td>[struct]</td>
<td>Y/A</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>priority</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>topology</td>
<td>String</td>
<td>Y/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<tr>
<td>types</td>
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<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>status_member</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.49 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/ZG5zLm5ldHdvcmtfmldyQxMTk: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 the 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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

*Notes*

comment is part of the base object.
**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**

The interval for a health check.

**Type**

Unsigned integer.

**Create**

The default value is *undefined*.

**Search**

The field is not available for search.

---

**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**

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

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

**Notes**

name is part of the base object.

---

**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**

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

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

The timeout for a health check.

Type
Unsigned integer.

Create
The default value is undefined.

Search
The field is not available for search.

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

type is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
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<td>N</td>
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</tr>
<tr>
<td>monitor</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
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<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
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<tr>
<td>port</td>
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<td>N</td>
<td>N/A</td>
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</tr>
<tr>
<td>retry_down</td>
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<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
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<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.50 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: dtc:monitor:http/ZG5zLm5ldHvcmtdmlldyQxMTk:DTCHttp1

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:
### 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

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

Notes

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 an 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.
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.

<table>
<thead>
<tr>
<th>content_check_regex</th>
</tr>
</thead>
<tbody>
<tr>
<td>content_check_regex</td>
</tr>
<tr>
<td>A content check regular expression.</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>content_extract_group</th>
</tr>
</thead>
<tbody>
<tr>
<td>content_extract_group</td>
</tr>
<tr>
<td>A content extraction sub-expression to extract.</td>
</tr>
</tbody>
</table>

**Type**

Unsigned integer.

**Create**

The default value is 0.

**Search**

The field is not available for search.
**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**

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**

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**

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**

The interval for TCP health check.

**Type**

Unsigned integer.

**Create**

The default value is 5.

**Search**

The field is not available for search.

---

**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

- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
</table>

**port**
Port for TCP requests.

**Type**
Unsigned integer.

**Create**
The default value is 80.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>request</th>
</tr>
</thead>
</table>

**request**
An HTTP request to send.

**Type**
String.

**Create**
The default value is GET /.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>result</th>
</tr>
</thead>
</table>

**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.
<table>
<thead>
<tr>
<th>result_code</th>
</tr>
</thead>
</table>

**result_code**  
The expected return code.  
**Type**  
Unsigned integer.  
**Create**  
The default value is 200.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th>retry_down</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>retry_up</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>secure</th>
</tr>
</thead>
</table>

**secure**  
The connection security status.  
**Type**  
Bool.
Create
The default value is False.

Search
The field is not available for search.

**timeout**

The timeout for TCP health check in seconds.

**Type**
Unsigned integer.

Create
The default value is 15.

Search
The field is not available for search.

**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ciphers</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_cert</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>content_check</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_check_input</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_check_op</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_check_regex</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_extract_group</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_extract_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>content_extract_value</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_sni</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>request</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>result</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>result_code</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_down</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>secure</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>validate_cert</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**3.51 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: dtc:monitor:icmp/ZG5zLm5ldHdvcmtdmldyQxMTk:DTClcmp1

**Restrictions**

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

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**

The interval for TCP health check.

**Type**
Unsigned integer.

**Create**
The default value is 5.

**Search**
The field is not available for search.

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

**Notes**
name is part of the base object.

**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.
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.

The timeout for TCP health check in seconds.

Type
Unsigned integer.

Create
The default value is 15.

Search
The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>retry_down</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.52 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: dtc:monitor:pdp/ZG5zLm5ldHdvcmtdmlldyQxMTk:DTCPdp1

**Restrictions**

The object does not support the following operations:

• CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

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

**Notes**
name is part of the base object.
**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**

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**

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**

The timeout for TCP health check in seconds.

- **Type**
  Unsigned integer.
Create

The default value is 15.

Search

The field is not available for search.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_down</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>


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: dtc:monitor:sip/ZG5zLm5ldHdvcmtdmldyQxMTk:DTCSip1

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>
**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**

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 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

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

**Notes**

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 TCP 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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)
Notes
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 TCP health check in seconds.

**Type**
Unsigned integer.
Create
The default value is 15.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>transport</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>validate_cert</th>
</tr>
</thead>
</table>

**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.
3.54 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: dtc:monitor:snmp/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCSnmp1

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

comment is part of the base object.

**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**

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

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

---

**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

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

---

**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**

The interval for TCP health check.

**Type**
Unsigned integer.

**Create**
The default value is 5.

**Search**
The field is not available for search.

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

**Notes**
name is part of the base object.

**oids**

A list of OIDs for SNMP monitoring.

**Type**
A/An *DTC SNMP Monitor OID* struct array.

**Create**
The default value is:

```ruby
eempty
```
**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**

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**

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

The timeout for TCP health check in seconds.

Type

Unsigned integer.

Create

The default value is 15.

Search

The field is not available for search.

user

The SNMPv3 user setting.

Type

String.

Create

The default value is empty.

Search

The field is not available for search.

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>community</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>context</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>engine_id</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>oids</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_down</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>user</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>version</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.55 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: dtc:monitor:tcp/ZG5zLm5ldHdvcmtdmlldyQxMTk:DTCTcp1

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>port</td>
<td></td>
</tr>
</tbody>
</table>
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
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 TCP health check.

**Type**
Unsigned integer.

**Create**
The default value is 5.
Search
The field is not available for search.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>retry_down</th>
</tr>
</thead>
</table>

**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.

```plaintext
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.

```plaintext
timeout
```

**timeout**
The timeout for TCP health check in seconds.

**Type**
Unsigned integer.

**Create**
The default value is 15.

**Search**
The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattr</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_down</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_up</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.56 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 the 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**

- abstract_type is part of the base object.
- 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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
comment is part of the base object.
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
display_type is part of the base object.
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*.

<table>
<thead>
<tr>
<th>ipv4_address_list</th>
</tr>
</thead>
</table>

**ipv4_address_list**
The list of IPv4 addresses.

**Type**
String array.

**Search**
The field is not available for search.

**Notes**
ipv4_address_list cannot be updated.
ipv4_address_list cannot be written.

<table>
<thead>
<tr>
<th>ipv6_address_list</th>
</tr>
</thead>
</table>

**ipv6_address_list**
The list of IPv6 addresses.

**Type**
String array.

**Search**
The field is not available for search.

**Notes**
ipv6_address_list cannot be updated.
ipv6_address_list cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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

- `':='` (case insensitive search)
• ‘=’ (exact equality)

• ‘~=' (regular expression)

Notes

name is part of the base object.
name cannot be updated.
name cannot be written.

<table>
<thead>
<tr>
<th>object</th>
</tr>
</thead>
</table>

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
object cannot be updated.
object cannot be written.

<table>
<thead>
<tr>
<th>status</th>
</tr>
</thead>
</table>

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
status is part of the base object.
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**
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

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

**Notes**
status_member is a search-only field.

**type**

*type*
The type of the managed object to search for.

**Type**
String.

**Valid values are:**
Search
The field is available for search via

- ‘=’ (exact equality)

Notes
type is a search-only field.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>abstract_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>display_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv4_address_list</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_address_list</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>object</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
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<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>status_member</td>
<td>String</td>
<td>: =~</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.57 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: dtc::pool/ZG5zLm5ldHdvcmtfdmllldyQxMTk:DTCPool1
**Restrictions**

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb_dynamic_ratio_preferred</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>lb_preferred_method</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>servers</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**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 \textit{empty}.\par

\textbf{Search}\par

The field is available for search via \begin{itemize}
\item ‘:=’ (case insensitive search)
\item ‘=’ (exact equality)
\item ‘~:=’ (regular expression)
\end{itemize}\par

\textbf{Notes}\par

comment is part of the base object.\par

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
\textbf{disable} \\
\hline
\end{tabular}
\end{table}\par

\textbf{disable}\par

Determines whether the DTC Pool is disabled or not. When this is set to False, the fixed address is enabled.\par

\textbf{Type}\par

 BOOL.\par

\textbf{Create}\par

The default value is \textit{False}.\par

\textbf{Search}\par

The field is not available for search.\par

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
\textbf{extattrs} \\
\hline
\end{tabular}
\end{table}\par

\textbf{extattrs}\par

Extensible attributes associated with the object.\par

For valid values for extensible attributes, see \textit{the following information}.\par

\textbf{Type}\par

Extensible attributes.\par

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

\textbf{Create}\par

The default value is \textit{empty}.\par

\textbf{Search}\par

For how to search extensible attributes, see \textit{the following information}.\par

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
\textbf{health} \\
\hline
\end{tabular}
\end{table}\par

\textbf{health}
The health status.

Type
A/An *Health information* struct.

Search
The field is not available for search.

Notes
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
- RATIO
- ROUND_ROBIN
- 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
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:

```json
{ 'invert_monitor_metric': False,
  'method': 'MONITOR',
  'monitor_weighing': 'RATIO'}
```

Search
The field is not available for search.

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

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_AVAILABLE
- RATIO
- ROUND_ROBIN
- **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**
  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

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

**Notes**

name is part of the base object.

<table>
<thead>
<tr>
<th>quorum</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>servers</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

use_ttl

Use flag for: ttl

Type

Bool.

Create

The default value is False.

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.

<table>
<thead>
<tr>
<th>status_member</th>
</tr>
</thead>
</table>

status_member

The name of the status member to search for.

Type

String.

Search

The field is available for search via

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

Notes

status_member is a search-only field.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>availability</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>health</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_alternate_method</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_alternate_topology</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_dynamic_ratio_alternate</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_dynamic_ratio_preferred</td>
<td>struct</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_preferred_method</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lb_preferred_topology</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>monitors</td>
<td>obj</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>quorum</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>servers</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>status_member</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

3.58 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: dtc:record:a/ZG5zLmJpbmRfY25h:dtcserver/10.0.0.1
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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dtc_server</td>
<td></td>
</tr>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
</tbody>
</table>

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

### 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**
dtc_server is part of the base object.
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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

Notes
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.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_created</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dlc_server</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.59  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: dtc:record:aaaa/ZG5zLmJpbmRfY25h:dtcserver/2001:db8::1

**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 the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dtc_server</td>
<td></td>
</tr>
<tr>
<td>ipv6addr</td>
<td></td>
</tr>
</tbody>
</table>

**auto_created**

Flag that indicates whether this record was automatically created by NIOS.

**Type**

String.
Search
The field is not available for search.

Notes
auto_created cannot be updated.
auto_created cannot be written.

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

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

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
dtc_server is part of the base object.
dtc_server cannot be updated.

### 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
• ‘=’ (exact equality)
• ‘~=' (regular expression)

**Notes**
ipv6addr is part of the base object.

### 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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_created</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dtc_server</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.60 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 it’s 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: dtc:record:cname/ZG5zLmJpbmRfY25h:dtcserver/dtc.localdomain
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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>dtc_server</td>
<td></td>
</tr>
</tbody>
</table>

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**

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

Notes
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

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

---

### 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**
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**
dtc_server is part of the base object.
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 flag for: ttl

Type
- Bool.

Create
- The default value is False.

Search
- The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_created</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_canonical</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dtc_server</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.61 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: dtc:record:naptr/ZG5zLmJpbmRfY25h:dtcservr/111/222/replacement
Restrictions

The object does not support the following operations:

- Global search (searches via \emph{the search object})
- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dtc_server</td>
<td></td>
</tr>
<tr>
<td>order</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
<tr>
<td>replacement</td>
<td></td>
</tr>
</tbody>
</table>

\textbf{comment}

\textbf{comment}

Comment for the record; maximum 256 characters.

\textbf{Type}

String.

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

\textbf{Create}

The default value is \textit{empty}.

\textbf{Search}

The field is available for search via

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

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**

dtc_server is part of the base object.
dtc_server cannot be updated.

### 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

- `:=` (case insensitive search)
- `=' (exact equality)
- `~=` (regular expression)
**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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
order is part of the base object.

**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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
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**
regexp is part of the base object.

---

**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
- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**
replacement is part of the base object.

---

**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*. 

---

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Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
services is part of the base object.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>dtc_server</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>flags</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>order</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>preference</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>regexp</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>replacement</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>services</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>


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: dtc:server/ZG5zLm5ldHvcmtfdmlldyQxMTk:DTCServer1

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>
**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

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

**Notes**

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**

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**

The health status.

**Type**
A/An Health information struct.

**Search**
The field is not available for search.

**Notes**
health cannot be updated.
health cannot be written.

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

Notes
host is part of the base object.

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

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

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

**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.

### 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
- `':='` (case insensitive search)
- `'='` (exact equality)
• ‘~=’ (regular expression)

**Notes**

status_member is a search-only field.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_create_host_record</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>health</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>host</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>monitors</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>sni_hostname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: =~</td>
</tr>
<tr>
<td>use_sni_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>status_member</td>
<td>String</td>
<td>: =~</td>
</tr>
</tbody>
</table>

### 3.63 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: dtc:topology/ZG5zLm5ldHvcmtdmlldyQxMTk:DTCTopology1

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Notes**

comment is part of the base object.

exattrs

**exattrs**

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

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

Notes
name is part of the base object.

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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>rules</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.64 `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/ZG5zLm5ldHdvcmtdmlldyQxMTk: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 the 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
  • EA1
  • EA2
• EA3
• EA4
• SUBDIVISION
• SUBNET

Search
The field is available for search via
• ‘=’ (exact equality)

Notes
field is part of the base object.
field cannot be updated.
field cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>field</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>label</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: ~</td>
</tr>
</tbody>
</table>


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: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: dtc:topology:rule/ZG5zLm5ldHdvcmtfdmlldyQxMTk:DTCTopology1/Server1

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 the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dest_type</td>
<td></td>
</tr>
<tr>
<td>destination_link</td>
<td></td>
</tr>
</tbody>
</table>

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_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 field is required on creation.

**Search**
The field is not available for search.

**sources**

**sources**
The conditions for matching sources.

**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**
topology cannot be updated.
topology 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
valid cannot be updated.
valid cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>dest_type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>destination_link</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>sources</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>topology</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>valid</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.66 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: dxl:endpoint/b25iLmVuZHBvaW50JDMzOQ:wintermute

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 the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>brokers</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>brokers_import_token</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>client_certificate_token</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>outbound_member_type</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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**
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**
client_certificate_valid_from cannot be updated.
client_certificate_valid_from cannot be written.
**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**
client_certificate_valid_to cannot be updated.
client_certificate_valid_to cannot be written.

**comment**

The comment of a DXL endpoint.

**Type**
String.

**Create**
The default value is _empty_.

**Search**
The field is not available for search.

**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**
disable is part of the base object.
**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**

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**

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>outbound_member_type</th>
</tr>
</thead>
</table>

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
outbound_member_type is part of the base object.

<table>
<thead>
<tr>
<th>outbound_members</th>
</tr>
</thead>
</table>

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.
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.

The vendor identifier.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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**

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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>brokers</td>
<td>[struct]</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>brokers_import_token</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_certificate_subject</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_certificate_token</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_certificate_valid_from</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_certificate_valid_to</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>log_level</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>outbound_member_type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>outbound_members</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template_instance</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vendor_identifier</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>wapi_user_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>wapt_user_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

**3.67 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.
The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
</tr>
</tbody>
</table>

---

**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 for the Extensible Attribute Definition; maximum 256 characters.

**Type**

String.

**Create**

The default value is *undefined*.

**Search**

The field is available for search via

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

**Notes**

comment is part of the base object.

---

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>namespace</th>
</tr>
</thead>
<tbody>
<tr>
<td>namespace</td>
</tr>
<tr>
<td>Namespace for the Extensible Attribute Definition.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>

**Valid values are:**

- CLOUD
- CLOUD_GM
- MSADSITES
- RIPE
- default

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
namespace cannot be updated.
namespace cannot be written.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>Type for the Extensible Attribute Definition.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>

**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
type is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allowed_object_types</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>default_value</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>descendants_action</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>flags</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>list_values</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>max</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>min</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>namespace</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.68 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 the 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
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Input fields</th>
<th>Output fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>downloadcomplete</strong></td>
<td>This function is used to signal to the appliance that a file download operation was completed.</td>
<td><strong>token</strong> (String.) This parameter is mandatory. The token returned by the function call used to request the data.</td>
<td>None</td>
</tr>
<tr>
<td><strong>update_licenses</strong></td>
<td>This function is used to upload a license file.</td>
<td><strong>token</strong> (String.) This parameter is mandatory. Upload information. Used to upload license file.</td>
<td>None</td>
</tr>
<tr>
<td><strong>uploadinit</strong></td>
<td>This function is used to begin an upload operation.</td>
<td><strong>filename</strong> (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”.</td>
<td><strong>token</strong> (String.) The token used for calling the upload function. <strong>url</strong> (String.) The URL to which the file is being uploaded.</td>
</tr>
<tr>
<td><strong>csv_import</strong></td>
<td>This function is used to import objects to the appliance in CSV format.</td>
<td><strong>action</strong> (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”. <strong>doimport</strong> (Bool.) If this is set to True, the import will begin immediately. The default value is “True”. <strong>on_error</strong> (String. Valid values are: “CONTINUE”, “STOP”) The action to be taken if the import operation encounters an error. The default value is “STOP”.</td>
<td></td>
</tr>
</tbody>
</table>
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.) The description of an error occurred if 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) 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 overriden. 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 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 ruleset is uploaded. It can be also used for calling the downloadcomplete function to download ruleset.

Output fields

token (String.) The token returned by the uploadinit function call if ruleset is uploaded. It can be also used for calling the downloadcomplete function to download ruleset.

(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 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) 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.
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

(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.

token (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.

token (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.

token (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.

token (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”) 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”.

e-mail (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”.

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

certificate_token (String.) The token used for calling the downloadcomplete function.
certificate_url (String.) For local (not remote) uploads, the URL from which the requested file is downloaded.

(download) generatesafenetclientcert

This function is used to generate a SafeNet 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 SafeNet certificate digest algorithm.

member (String.). This parameter is mandatory. The member the SafeNet 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) 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”) 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.

e-mail (String.) The contact e-mail address used to construct the distinguished name of the subject. The default value is “None”.

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**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”.

### 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 get 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.

**include_rotated** (Bool.) Determines if rotated files are to be included. The default value is “False”.

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log_type (String. Valid values are: “SYSLOG”, “AUDITLOG”, “MSMGMTLOG”, “DELTALOG”, “OUTBOUND”). 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 “False”.

log_files (Bool.) Include log files in support bundle. The default value is “False”.

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. The default value is “False”.

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 “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) 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”.

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
**type** (String. Valid values are: “NTP_KEY_FILE”, “SNMP_MIBS_FILE”, “BACKUP”). This parameter is mandatory. The type of data to download.

**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.

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”). 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 getsafenetclientcert**

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: “RSASHA1”, “RSASHA256”). This parameter is mandatory. The SafeNet certificate digest algorithm.

member (String.). This parameter is mandatory. The member the SafeNet 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.

(perform 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_EVENT”, “REST_ENDPOINT” ). 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.

### 3.69 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: filterfingerprint/SW5mb2Jsb3ggQXBwbGlhbmlNl:filter1
Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>fingerprint</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

comment

comment

The descriptive comment.

Type

String.

Create

The default value is empty.

Search

The field is available for search via

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

Notes

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**

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**

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

**Notes**
name is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>fingerprint</td>
<td>[String]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
</tbody>
</table>
3.70 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: filtermac/SW5mb2Jsb3ggQXBwbGlhbmNl:filter1

Restrictions

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes

comment is part of the base object.
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

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

**Notes**

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.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>default_mac_address_expiration</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enforce_expiration_times</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>never_expires</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>reserved_for_infoblox</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.71 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: filternac/SW5mb2Jsb3ggQXBwbGlhbmNi:filter1

### Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>
**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

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

**Notes**

comment is part of the base object.

**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**

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.

<table>
<thead>
<tr>
<th>lease_time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>lease_time</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
</tr>
<tr>
<td>The name of a DHCP NAC Filter object.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>name is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>options</strong></td>
</tr>
<tr>
<td>An array of <em>DHCP option</em> structs that lists the DHCP options associated with the object.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>A/An <em>DHCP option</em> struct array.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
| The default value is:
Search

The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>expression</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>ext</td>
</tr>
<tr>
<td>lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

### 3.72 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: filteroption/ZG5zLm5ldHvcmtfdmlldyQxMTk:default

### Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>
**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.
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

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

**Notes**

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

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

**Notes**
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**

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**

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**

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.
3.73 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: filterrelayagent/ZG5zLmRoY3Bfb3B0aW9uXzgyX2ZpbHRlciRcbG94:Blox

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>circuit_id_name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>circuit_id_substring_length</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>circuit_id_substring_offset</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>is_circuit_id</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>is_circuit_id_substring</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>is_remote_id</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>is_remote_id_substring</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>remote_id_name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>remote_id_substring_length</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>remote_id_substring_offset</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**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**

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**

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

**Notes**
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**

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**

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**

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.

<table>
<thead>
<tr>
<th>is_remote_id_substring</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>remote_id_name</th>
</tr>
</thead>
</table>

**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

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

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.
**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>circuit_id_name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>circuit_id_substring_length</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>circuit_id_substring_offset</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>is_circuit_id</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_circuit_id_substring</td>
<td>Bool</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_remote_id</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_remote_id_substring</td>
<td>Bool</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>remote_id_name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_id_substring_length</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_id_substring_offset</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

**3.74 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: fingerprint/SW5mb2Jsb3ggQXBwbGlhbmNl:Infoblox%20Appliance

**Restrictions**

The object cannot be managed on the 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**.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>device_class</td>
<td>A class of DHCP Fingerprint object; maximum 256 characters.</td>
</tr>
<tr>
<td>ipv6_option_sequence</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>option_sequence</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>vendor_id</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**comment**

Comment for the Fingerprint; maximum 256 characters.

**Type**

String.

**Create**

The default value is *empty*.

**Search**

The field is available for search via

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

**Notes**

comment is part of the base object.

**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

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

**Notes**

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 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

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

**Notes**

name is part of the base object.

---

**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**

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)

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>device_class</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv6_option_sequence</td>
<td>[String]</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>option_sequence</td>
<td>[String]</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>vendor_id</td>
<td>[String]</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

3.75 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: fixedaddress/ZG5zLmJpbmRfY25h:12.0.10.1/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): `ipv4addr, network_view`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>agent_circuit_id</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>agent_remote_id</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>dhcp_client_identifier</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

### 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

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

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

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

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
cloud_info cannot be updated.
cloud_info cannot be written.

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

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

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).

<table>
<thead>
<tr>
<th>ddns_hostname</th>
</tr>
</thead>
<tbody>
<tr>
<td>ddns_hostname</td>
</tr>
<tr>
<td>The DDNS host name for this fixed address.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>deny_bootp</th>
</tr>
</thead>
<tbody>
<tr>
<td>deny_bootp</td>
</tr>
<tr>
<td>If set to true, BOOTP settings are disabled and BOOTP requests will be denied.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>deny_bootp is associated with the field use_deny_bootp (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>device_description</th>
</tr>
</thead>
<tbody>
<tr>
<td>device_description</td>
</tr>
<tr>
<td>The description of the device.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
</tbody>
</table>
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

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

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
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)
### 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

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

### 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

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**
Determination 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 value are:**
- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

**Search**
The field is not available for search.

**Notes**
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 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*).

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.

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**

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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/ZG54dfgsrDFEFfsfslAZA: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 range (default parameters: {‘num’: 1})
• the next_available_ip function call in object network (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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:
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

- ‘=’ (exact equality)
- ‘~=’ (regular expression)

Notes
ipv4addr is part of the base object.

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
is_invalid_mac cannot be updated.

is_invalid_mac cannot be written.

logic_filter_rules

This field contains the logic filters to be applied on the this fixed address.

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

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

### 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
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.
```

```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

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

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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

### 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
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:

```json
[ { '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).

<table>
<thead>
<tr>
<th>pxel_lease_time</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>reserved_interface</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>restart_if_needed</th>
</tr>
</thead>
</table>

**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.

---

### 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
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.
```
<table>
<thead>
<tr>
<th>use_ddns_domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ddns_domainname</strong></td>
</tr>
<tr>
<td>Use flag for: ddns_domainname</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_deny_bootp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_deny_bootp</strong></td>
</tr>
<tr>
<td>Use flag for: deny_bootp</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_ddns</strong></td>
</tr>
<tr>
<td>Use flag for: enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_ignore_dhcp_option_list_request</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ignore_dhcp_option_list_request</strong></td>
</tr>
<tr>
<td>Use flag for: ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_logic_filter_rules</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_logic_filter_rules</strong></td>
</tr>
<tr>
<td>Use flag for: logic_filter_rules</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_nextserver</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_nextserver</strong></td>
</tr>
<tr>
<td>Use flag for: nextserver</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_options</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_options</strong></td>
</tr>
<tr>
<td>Use flag for: options</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**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**

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**

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.

**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 IP address of Wireless Access Point.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.ap_ip_address is a search-only field.

**discovered_data.ap_name**

Discovered name of Wireless Access Point.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.ap_name is a search-only field.

**discovered_data.ap_ssid**

Service set identifier (SSID) associated with Wireless Access Point.

**Type**

String.

**Search**

The field is available for search via

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

Notes
discovered_data.ap_ssid is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.bridge_domain</th>
</tr>
</thead>
</table>

discovered_data.bridge_domain
Discovered bridge domain.

Type
String.

Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
discovered_data.bridge_domain is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.cisco_ise_endpoint_profile</th>
</tr>
</thead>
</table>

discovered_data.cisco_ise_endpoint_profile
The Cisco ISE Endpoint Profile.

Type
String.

Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
discovered_data.cisco_ise_endpoint_profile is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.cisco_ise_security_group</th>
</tr>
</thead>
</table>

discovered_data.cisco_ise_security_group
The Cisco ISE security group name.

Type
String.
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

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

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

**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

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

**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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

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

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

**Notes**

discovered_data.device_vendor is a search-only field.
<table>
<thead>
<tr>
<th>discovered_data.discovered_name</th>
</tr>
</thead>
</table>
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.discovered_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.discoverer</th>
</tr>
</thead>
</table>
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.discoverer is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.endpoint_groups</th>
</tr>
</thead>
</table>
**discovered_data.endpoint_groups**
A comma-separated list of discovered endpoint groups.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (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

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

**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

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

**Notes**

discovered_data.iprg_no is a search-only field.

### 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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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

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

**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

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

**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

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

Notes
discovered_data.network_component_contact is a search-only field.

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

Notes
discovered_data.network_component_description is a search-only field.

discovered_data.network_component_ip

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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

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

**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

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

**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

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

**Notes**
discovered_data.network_component_model is a search-only field.
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**

`discovered_data.network_component_name` is a search-only field.

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

**Notes**

`discovered_data.network_component_port_description` is a search-only field.

**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
discovered_data.network_component_port_name is a search-only field.

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**Notes**

discovered_data.network_component_port_number is a search-only field.

**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

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

**Notes**

discovered_data.network_component_type is a search-only field.

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

**Notes**
discovered_data.network_component_vendor is a search-only field.

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

**Notes**
discovered_data.open_ports is a search-only field.

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
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

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

The interface speed, in Mbps, of the switch port.

Type
String.

Search
The field is available for search via

Notes
discovered_data.port_speed is a search-only field.
discovered_data.port_speed is a search-only field.

**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**

The type of switch port.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.port_type is a search-only field.

**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
discovered_data.port_vlan_name

The name of the VLAN of the switch port.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.port_vlan_name is a search-only field.

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
- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

Notes
discovered_data.port_vlan_number is a search-only field.
discovered_data.task_name

The name of the discovery task.

Type

String.

Search

The field is available for search via

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

Notes

discovered_data.task_name is a search-only field.

discovered_data.tenant

Discovered tenant.

Type

String.

Search

The field is available for search via

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

Notes

discovered_data.tenant is a search-only field.

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

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

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

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

Notes
discovered_data.v_entity_name is a search-only field.

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

The name of the VMware server on which the virtual entity was discovered.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=’ (regular expression)

Notes
discovered_data.v_host is a search-only field.
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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

Notes
discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

Port group which the virtual machine belongs to.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

Notes
discovered_data.vlan_port_group is a search-only field.

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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
discovered_data.vmhost_ip_address is a search-only field.

**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

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

**Notes**

discovered_data.vmhost_mac_address is a search-only field.

**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

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

**Notes**

discovered_data.vmhost_name is a search-only field.

**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

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

Notes
discovered_data.vmhost_nic_names is a search-only field.

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

- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

Notes
discovered_data.vmhost_subnet_cidr is a search-only field.

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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>discovered_data.vmi_ip_type</code></td>
<td>Discovered IP address type.</td>
<td>String.</td>
<td>':=', '=' (exact equality), '~=' (regular expression)</td>
<td><code>discovered_data.vmi_ip_type</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vmi_is_public_address</code></td>
<td>Indicates whether the IP address is a public address.</td>
<td>Bool.</td>
<td>'=' (exact equality)</td>
<td><code>discovered_data.vmi_is_public_address</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vmi_name</code></td>
<td>Name of the virtual machine.</td>
<td>String.</td>
<td>':=', '=' (exact equality), '~=' (regular expression)</td>
<td></td>
</tr>
</tbody>
</table>
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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.

<table>
<thead>
<tr>
<th>discovered_data.vport_conf_speed</th>
</tr>
</thead>
</table>

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

**Notes**

discovered_data.vport_conf_speed is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vport_link_status</th>
</tr>
</thead>
</table>

**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

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

**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

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

**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
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

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

**Notes**

discovered_data.vport_speed is a search-only field.

**discovered_data.vswitch_available_ports_count**

*discovered_data.vswitch_available_ports_count*

Number 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

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

**Notes**

discovered_data.vswitch_available_ports_count is a search-only field.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_id</td>
<td>ID of the virtual switch.</td>
<td>String.</td>
<td>The field is available for search via <code>-</code> (exact equality)</td>
<td>discovered_data.vswitch_id is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Indicates the virtual switch has IPV6 enabled.</td>
<td>Bool.</td>
<td>The field is available for search via <code>-</code> (exact equality)</td>
<td>discovered_data.vswitch_ipv6_enabled is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>Name of the virtual switch.</td>
<td>String.</td>
<td>The field is available for search via <code>-</code> (exact equality), <code>:=</code> (case insensitive search), <code>~=</code> (regular expression)</td>
<td>discovered_data.vswitch_name is a search-only field.</td>
</tr>
</tbody>
</table>
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

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

**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

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

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

**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

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

**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
discovered_data.vswitch_tep_ip is a search-only field.

**discovered_data.vswitch_tep_multicast**

**Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.**

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.vswitch_tep_multicast is a search-only field.

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

**Notes**
discovered_data.vswitch_tep_port_group is a search-only field.

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

**Notes**  
discovered_data.vswitch_tep_type is a search-only field.

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

**Notes**  
discovered_data.vswitch_tep_vlan is a search-only field.

| 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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
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<td>N</td>
<td>N/A</td>
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<td>N</td>
<td>N/A</td>
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<td>N</td>
<td>N/A</td>
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<td>bootfile</td>
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<td>N</td>
<td>N/A</td>
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<tr>
<td>bootserver</td>
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<td>N</td>
<td>N/A</td>
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<tr>
<td>cli_credentials</td>
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</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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</table>

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

### Search-only Fields List

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<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
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</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
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<td>discovered_data.cisco_ise_session_state</td>
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<td>discovered_data.cisco_ise_ssid</td>
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</tr>
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</tr>
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<td>String</td>
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</tr>
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<td>discovered_data.device_location</td>
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<td>: = ~</td>
</tr>
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<td>discovered_data.device_port_type</td>
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<td>discovered_data.discoverer</td>
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<td>discovered_data.endpoint_groups</td>
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</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.iprg_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.mgmt_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.netbios_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_ip</td>
<td>String</td>
<td>:= ~</td>
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<td>discovered_data.network_component_location</td>
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</tr>
<tr>
<td>discovered_data.network_component_model</td>
<td>String</td>
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</tr>
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<td>discovered_data.network_component_name</td>
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<td>discovered_data.network_component_port_description</td>
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</tr>
<tr>
<td>discovered_data.network_component_port_name</td>
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</tr>
<tr>
<td>discovered_data.network_component_port_number</td>
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<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.network_component_type</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_vendor</td>
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</tr>
<tr>
<td>discovered_data.open_ports</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.os</td>
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<tr>
<td>discovered_data.port_duplex</td>
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<tr>
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</tr>
<tr>
<td>discovered_data.port_speed</td>
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</tr>
<tr>
<td>discovered_data.port_status</td>
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<tr>
<td>discovered_data.port_type</td>
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<tr>
<td>discovered_data.port_vlan_description</td>
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<tr>
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<td>:= ~</td>
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<td>discovered_data.vhost_mac_address</td>
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<td>:= ~</td>
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</tr>
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<tr>
<td>discovered_data.vport_conf_mode</td>
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<td>=</td>
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</tr>
<tr>
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<td>String</td>
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</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
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Continued on next page
### Table 3.6 – continued from previous page

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<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
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</tr>
<tr>
<td>discovered_data.vswitch_id</td>
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</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
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<td>String</td>
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</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_vlan</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

#### 3.76 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: fixedaddresstemplate/ZG5zLmJpbmRfY25h:template_name

### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.
The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

Notes
comment is part of the base object.

**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**

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**

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**

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**

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).

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>nextserver</th>
</tr>
</thead>
</table>

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

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.
<table>
<thead>
<tr>
<th>use_ddns_domainname</th>
</tr>
</thead>
</table>

Use flag for: ddns_domainname  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th>use_deny_bootp</th>
</tr>
</thead>
</table>

Use flag for: deny_bootp  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
</table>

Use flag for: enable_ddns  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ignore_dhcp_option_list_request</th>
</tr>
</thead>
</table>

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 flag for: logic_filter_rules
Type
Bool.
Create
The default value is False.
Search
The field is not available for search.

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 flag for: options
Type
Bool.
Create
The default value is False.
Search
The field is not available for search.
**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.

<table>
<thead>
<tr>
<th>Field</th>
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<th>Base</th>
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<td>N</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_logic_filter_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_nextserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_pxe_lease_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.77 ftpuser : FTP user object.

The FTP user represents the user accounts for use with 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: ftpuser/ZG5zLm9wdGbld9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:user1

Restrictions

The object does not support the following operations:

- Scheduling

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>create_home_dir</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>home_dir</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>password</td>
<td></td>
</tr>
<tr>
<td>username</td>
<td></td>
</tr>
</tbody>
</table>

create_home_dir

create_home_dir

Determines whether to create the home directory with user name or use the existing directory as home.

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

create_home_dir cannot be updated.
create_home_dir is not readable.
### 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

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**
home_dir cannot be updated.

### 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.

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

**Notes**
username is part of the base object.
username cannot be updated.
## Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>create_home_dir</td>
<td>Bool</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>home_dir</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>password</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>permission</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>username</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
</tbody>
</table>

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

### 3.78 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: grid/ZG5zLm5ldHvcmtfdmlldyQxMTk:Infoblox

## 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.
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

Determines the audit log format.

Type
String.

Valid values are:
- BRIEF
- DETAILED

Create
The default value is DETAILED.

Search
The field is not available for search.

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
### consent_banner_setting

The Grid consent banner settings.

**Type**

A/An *Consent banner setting* struct.

**Create**

The default value is:

```json
{ 'enable': False}
```

**Search**

The field is not available for search.

### 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

The default actions for extensible attributes that exist on descendants.

**Type**

A/An *Descendants* struct.

**Create**

The default value is:

```json
{ 'option_delete_ea': 'RETAIN',
  'option_with_ea': 'RETAIN',
  'option_without_ea': 'NOT_INHERIT'}
```

**Search**

The field is not available for search.
**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**

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**

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, 'relay_enabled': False}
```

**Search**

The field is not available for search.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_gui_api_for_lan_vip</strong></td>
<td>If set to True, GUI and API access are enabled on the LAN/VIP port and MGMT port (if configured).</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_lom</strong></td>
<td>Determines if the LOM functionality is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_member_redirect</strong></td>
<td>Determines redirections is enabled or not for members.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>True</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_recycle_bin</strong></td>
<td>Determines if the Recycle Bin is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**enable_rir_swip**

_Determine if the RIR/SWIP support is enabled or not._

**Type**

_Bool._

Create

The default value is _True._

Search

The field is not available for search.

**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**

_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:

```python
{
    '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.

### 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.

<table>
<thead>
<tr>
<th>mgm_strict_delegate_mode</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ms_setting</th>
</tr>
</thead>
</table>

**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**

The grid name.

**Type**
String.

**Create**
The default value is *Infoblox*.

**Search**
The field is available for search via
- ‘=’ (exact equality)
- ‘~’ (regular expression)

**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**

The Grid Network Time Protocol (NTP) settings.

**Type**

**Create**
The default value is:

```python
{
    'enable_ntp': False,
    'ntp_acl': { 'acl_list': [], 'acl_type': 'NONE', 'service': 'TIME'},
    'ntp_keys': [],
    'ntp_kod': False,
    'ntp_servers': []
}
```

**Search**
The field is not available for search.
**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**

The Grid password settings.

**Type**

A/An *Password settings* struct.

**Create**

The default value is:

```json
{
    'chars_to_change': 0,
    'expire_days': 30,
    'expire_enable': False,
    'force_reset_enable': False,
    'num_lower_char': 0,
    'num_numeric_char': 0,
    '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**

The setting for the Restart Banner.

**Type**

A/An *Restart Banner Setting* struct.

**Create**

The default value is:

```json
{
    'enable_double_confirmation': False,
    'enabled': True
}
```
**restart_status**

**restart_status**
The restart status for the Grid.

Type
String.
This field supports nested return fields as described [here](#).
**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**

The scheduled backup configuration.

**Type**
A/An *Scheduled backup settings* struct.

**Create**
The default value is:

```json
{
  'backup_frequency': 'WEEKLY',
  'backup_type': 'LOCAL',
  'discovery_data': True,
  'enable': True,
  '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',
  'weekday': 'SATURDAY'
}
```

**Search**
The field is not available for search.

---

**secret**

The shared secret of the Grid. This is a write-only attribute.

**Type**
String.

**Create**
The default value is **undefined**.
The Grid security banner settings.

**Type**

A/An [Security banner settings](#) struct.

**Create**

The default value is:

```python
{
  'color': 'GREEN',
  'enable': False,
  'level': 'UNCLASSIFIED'
}
```

The field is not available for search.

The Grid security settings.

**Type**

A/An [Security settings](#) struct.

**Create**

The default value is:

```python
{
  'admin_access_items': [],
  'audit_log_rolling_enable': True,
  'http_redirect_enable': False,
  'lcd_input_enable': True,
  '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
}
```

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**

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:

```json
{
    '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.
**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**

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.
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 “(UTC - 5:00) Eastern Time (US and Canada)”.

**Type**
String.

**Create**
The default value is *(UTC) Coordinated Universal Time*.

**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.
**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.

**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

**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_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”) The outbound type of the templates. The default value is “REST”.
**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_EVENT”, “REST_ENDPOINT” ). 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

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

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 name of the service 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. Default is the host name of the Grid Master. 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”) 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”.

**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.

**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.

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.
- **member_order** (String. Valid values are: “SEQUENTIALLY”, “SIMULTANEOUSLY”) The order in which Grid members are being restarted. If this field is set to ‘SEQUENTIALLY’, sequential_delay must also be provided. This field is deprecated. Use field ‘mode’ instead.
- **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”.

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**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”.

**sequential_delay** (Unsigned integer.) The delayed time, in seconds, between Grid member restarts. This field is deprecated. Use ‘restart_setting’ of the grid:dns or grid:dhcpproperties instead.

**service_option** (String. Valid values are: “ALL”, “DHCP”, “DNS”) This field indicates the services that the appliance restarts. This field is deprecated. Use field ‘services’ instead.

**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_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’ which will restart the appliances with the new NIOS version.

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

**Input fields**


**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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
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### Table 3.7 – continued from previous page

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### 3.79 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: grid:cloudapi/ZGlHdvcmtfdmlldyQxMTk:grid

#### 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 the 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.
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
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
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
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.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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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/ZGldHdveMtfdmlldyQxMTk: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 the 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`.

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<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
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<td>Ratio of allocated vs. available IPs</td>
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<td><code>allocated_ip_count</code></td>
<td>Total number of IPs allocated by tenants.</td>
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<td>available_ip_count</td>
<td>The total number of IP addresses available to tenants. Only IP addresses in networks that are within a delegation scope are counted.</td>
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<td>The total number of fixed IP addresses currently in use by all tenants in the system.</td>
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<tr>
<td>floating_ip_count</td>
<td>The total number of floating IP addresses currently in use by all tenants in the system.</td>
</tr>
<tr>
<td>Type</td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>floating_ip_count is part of the base object. floating_ip_count cannot be updated. floating_ip_count cannot be written.</td>
</tr>
</tbody>
</table>
**tenant_count**

Tenant count
Total number of tenant currently in the system.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
- tenant_count is part of the base object.
- 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
- tenant_ip_count is part of the base object.
- 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
- tenant_vm_count is part of the base object.
- tenant_vm_count cannot be updated.
- tenant_vm_count cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allocated_available_ratio</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>allocated_ip_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>available_ip_count</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>fixed_ip_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>floating_ip_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>tenant_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>tenant_ip_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>tenant_vm_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.81 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: grid:cloudapi:tenant/ZGljdHdvcmtdmlldyQxMTk:tenant1

### 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.
**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**

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

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

**Notes**

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**
created_ts cannot be updated.
created_ts cannot be written.

<table>
<thead>
<tr>
<th>id</th>
</tr>
</thead>
</table>

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
id is part of the base object.
id cannot be updated.
id cannot be written.

<table>
<thead>
<tr>
<th>last_event_ts</th>
</tr>
</thead>
</table>

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
last_event_ts cannot be updated.
last_event_ts cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

Notes
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**

network_count cannot be updated.
network_count 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**

vm_count cannot be updated.
vm_count cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>created_ts</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>last_event_ts</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>network_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vm_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.82 `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: `grid:cloudapi:vm/ZGldHdvcmtdmlldyQxMTk:i-bfc15674/vm1`

### 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.
**availability_zone**

**availability_zone**
Availability zone of the VM.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
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**
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

- `=` (case insensitive search)
- `=.` (exact equality)
- `~=` (regular expression)
Notes
comment is part of the base object.

<table>
<thead>
<tr>
<th>elastic_ip_address</th>
</tr>
</thead>
<tbody>
<tr>
<td>elastic_ip_address</td>
</tr>
</tbody>
</table>
Elastic IP address associated with the VM’s primary interface.

**Type**
String.

**Search**
The field is available for search via

- ‘=’ (exact equality)

**Notes**
elastic_ip_address cannot be updated.
elastic_ip_address cannot be written.

<table>
<thead>
<tr>
<th>extattrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>extattrs</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>first_seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>first_seen</td>
</tr>
</tbody>
</table>
The timestamp when the VM was first seen in the system.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
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**  
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**  
id is part of the base object.

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**

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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**

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

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

**Notes**

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**

network_count cannot be updated.

network_count cannot be written.

<table>
<thead>
<tr>
<th>operating_system</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>operating_system</strong></td>
</tr>
<tr>
<td>Guest Operating system that this VM is running; maximum 128 characters.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <code>undefined</code>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>primary_mac_address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>primary_mac_address</strong></td>
</tr>
<tr>
<td>MAC address associated with the VM’s primary interface.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>primary_mac_address cannot be updated.</td>
</tr>
<tr>
<td>primary_mac_address cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>subnet_address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>subnet_address</strong></td>
</tr>
<tr>
<td>Address of the network that is the container of the address associated with the VM’s primary interface.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>subnet_address cannot be updated.</td>
</tr>
</tbody>
</table>
subnet_address cannot be written.

**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**
subnet_cidr cannot be updated.
subnet_cidr cannot be written.

**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**
subnet_id cannot be updated.
subnet_id cannot be written.

**tenant_name**

Name of the tenant associated with the VM.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
tenant_name cannot be updated.
tenant_name 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**

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**

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
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
vpc_name cannot be updated.
vpc_name cannot be written.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>availability_zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>elastic_ip_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>first_seen</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>hostname</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>network_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>operating_system</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>primary_mac_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>subnet_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subnet_cidr</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subnet_id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tenant_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vm_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vpc_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vpc_cidr</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vpc_id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vpc_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.83 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 the Cloud Platform members.

<table>
<thead>
<tr>
<th>Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>These fields are actual members of the object; thus, they can be requested by using _return_fields, if the fields are readable.</td>
</tr>
<tr>
<td>The basic version of the object contains the field(s): <strong>address, is_ipv4, network_view, port_id, vm_name</strong>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>address</strong></td>
</tr>
<tr>
<td>The IP address of the interface.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~’ (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>address is part of the base object.</td>
</tr>
<tr>
<td>address cannot be updated.</td>
</tr>
<tr>
<td>address cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>address_type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>address_type</strong></td>
</tr>
<tr>
<td>IP address type (Public, Private, Elastic, Floating, ...).</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>address_type cannot be updated.</td>
</tr>
<tr>
<td>address_type cannot be written.</td>
</tr>
</tbody>
</table>
**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**
associated_ip cannot be updated.
associated_ip cannot be written.

**associated_object_types**

Associated Object Types

**Type**
String array.

**Search**
The field is not available for search.

**Notes**
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**
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**
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**
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**
elastic_address cannot be updated.
elastic_address cannot be written.
**interface_name**

Name of the interface associated with this IP address.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
interface_name cannot be updated.
interface_name cannot be written.

**is_ipv4**

Indicates whether the address is IPv4 or IPv6.

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
is_ipv4 is part of the base object.
is_ipv4 cannot be updated.
is_ipv4 cannot be written.

**mac_address**

The MAC address of the interface.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

**Notes**
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**

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**

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**

network_view is part of the base object.

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**
- port_id is part of the base object.
- 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**
- 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**
- private_hostname cannot be updated.
- private_hostname cannot be written.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>public_address</td>
<td>Public IP address associated with this private address, if this address is a private address; otherwise empty.</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> String.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
<tr>
<td></td>
<td><strong>Notes</strong> public_address cannot be updated. public_address cannot be written.</td>
</tr>
<tr>
<td>public_hostname</td>
<td>Host part of the FQDN of this address if this address is a public (or elastic or floating) address; otherwise empty</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> String.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
<tr>
<td></td>
<td><strong>Notes</strong> public_hostname cannot be updated. public_hostname cannot be written.</td>
</tr>
<tr>
<td>subnet_address</td>
<td>Network address of the subnet that is the container of this address.</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> String.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
</tbody>
</table>
|                         | **Notes** 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**
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**
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**
tenant cannot be updated.
tenant cannot be written.
**vm_availability_zone**

Availability zone of the VM.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
vm_availability_zone cannot be updated.
vm_availability_zone cannot be written.

**vm_comment**

VM comment.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
vm_comment cannot be updated.
vm_comment cannot be written.

**vm_creation_time**

Date/time the VM was first created as NIOS object.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
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**

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

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

**Notes**

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**

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**

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

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

**Notes**

vm_name is part of the base object.

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**

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*
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*
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*
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**

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**

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**

vm_vpc_name cannot be updated.
vm_vpc_name cannot be written.
**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**

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**

The name of the tenant associated with the VM.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

tenant_name is a search-only field.

---

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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<tbody>
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<td>address</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>address_type</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>associated_ip</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>associated_object_types</td>
<td>[String]</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>obj</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>dns_names</td>
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<td>Y</td>
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<td>N</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<td>Y</td>
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</tr>
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<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subnet_address</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subnet_cidr</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>subnet_id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tenant</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>N/A</td>
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</tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>vm_last_update_time</td>
<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<td>vm_network_count</td>
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<td>N/A</td>
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<td>N/A</td>
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<tr>
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<td>N/A</td>
</tr>
</tbody>
</table>

**Search-only Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>tenant_name</td>
<td>String</td>
<td>= ~</td>
</tr>
</tbody>
</table>

**3.84 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.
References to grid:dashboard are object references.
The name part of the object reference is always the “GridDashboard” string.

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 the Cloud Platform members.

These fields are actual members of the object; 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, atp_critical_event_warning_threshold, atp_major_event_critical_threshold, atp_major_event_warning_threshold, atp_warning_event_critical_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.

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
analytics_tunneling_event_critical_threshold is part of the base object.
**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**
analytics_tunneling_event_warning_threshold is part of the base object.

---

**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**
atp_critical_event_critical_threshold is part of the base object.

---

**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**
atp_critical_event_warning_threshold is part of the base object.
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
atp_major_event_critical_threshold is part of the base object.

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
atp_major_event_warning_threshold is part of the base object.

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
atp_warning_event_critical_threshold is part of the base object.
**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**
atp_warning_event_warning_threshold is part of the base object.

**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**
rpz_blocked_hit_critical_threshold is part of the base object.

**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**
rpz_blocked_hit_warning_threshold is part of the base object.
**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**
rpz_passthru_event_critical_threshold is part of the base object.

---

**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**
rpz_passthru_event_warning_threshold is part of the base object.

---

**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**
rpz_substituted_hit_critical_threshold is part of the base object.
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
rpz_substituted_hit_warning_threshold is part of the base object.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>analytics_tunneling_event_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>analytics_tunneling_event_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_critical_event_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_critical_event_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_major_event_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_major_event_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_warning_event_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>atp_warning_event_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_blocked_hit_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_blocked_hit_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_passthru_event_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_passthru_event_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_substituted_hit_critical_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_substituted_hit_warning_threshold</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.85 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: grid:dhcpproperties/ZG5zLm5ldHdvcmtfdmlldyQxMTk:Infoblox

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**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`.

**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

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.
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.

<table>
<thead>
<tr>
<th>ddns_update_fixed_addresses</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ddns_use_option81</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>deny_bootp</th>
</tr>
</thead>
</table>

**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**

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**

disable_all_nac_filters is part of the base object.

---

**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**

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*. 
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 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.

<table>
<thead>
<tr>
<th>grid</th>
</tr>
</thead>
</table>

**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**

grid is part of the base object.

grid cannot be updated.

grid cannot be written.

<table>
<thead>
<tr>
<th>gss_tsig_keys</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>high_water_mark</th>
</tr>
</thead>
</table>

**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**

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**

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**

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.

<table>
<thead>
<tr>
<th>ipv6_domain_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6_domain_name</td>
</tr>
<tr>
<td>The IPv6 domain name.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Values with leading or trailing white space are not valid for this field.</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ipv6_domain_name_servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6_domain_name_servers</td>
</tr>
<tr>
<td>The comma separated list of domain name server addresses in IPv6 address format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String array.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ipv6_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6_enable_ddns</td>
</tr>
<tr>
<td>Determines if sending DDNS updates by the DHCPv6 server is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
### 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.
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)
Create
The default value is None.

Search
The field is not available for search.

### `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`

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`

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.
### 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.

<table>
<thead>
<tr>
<th>ipv6_update_dns_on_lease_renewal</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>kdc_server</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>lease_logging_member</th>
</tr>
</thead>
</table>

**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_MATCHING_ID”, “NEVER_RELEASE”, or “ONELEASE_PER_CLIENT”. The default is “RELEASE_MATCHING_ID”.

**Type**

String.

**Valid values are:**

- NEVER_RELEASE
- ONELEASE_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.

<table>
<thead>
<tr>
<th>logic_filter_rules</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>low_water_mark</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>low_water_mark_reset</th>
</tr>
</thead>
</table>

**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

next server
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:

```json
[ { '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

The preferred lifetime value.

Type
Unsigned integer.

Create
The default value is 27000.

Search
The field is not available for search.

protocol_hostname_rewrite_policies

The list of hostname rewrite policies.

Type
A/An hostname_rewritepolicy object array.

This field supports nested return fields as described [here](#).

Create
The default value is [{'replacement_character': '-', 'name': 'Default', 'valid_characters': 'a-z0-9_'}].

Search
The field is not available for search.

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**

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.

**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

<table>
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<tr>
<th>Field</th>
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<th>Base</th>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ping_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ping_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>preferred_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>protocol_hostname_rewrite_policies</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>pxe_lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>restart_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retry_ddns_updates</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>syslog_facility</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>txt_record_handling</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.86 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: grid:dns/ZG5zLm5ldHdvcmtfdm1ldyQxMTk:Infoblox

**Restrictions**

The object does not support the following operations:

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

The object cannot be managed on the 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.

<table>
<thead>
<tr>
<th>allow_bulkhost_ddns</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>allow_gss_tsig_zone_updates</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>allow_query</th>
</tr>
</thead>
</table>

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:
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

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

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
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

Mitigation settings for DNS attacks.

Type

A/An DNS Attack Mitigation object struct.

Create

The default value is:

```json
{  '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,  'mitigate_nxdomain_lru': False}
```

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:

```python
{
    '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

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.
**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**

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**

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_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

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

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.

<table>
<thead>
<tr>
<th>ddns_restrict_protected</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ddns_restrict_secure</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ddns_restrict_static</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>dns_cache_acceleration_ttl</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>dns_health_check_anycast_control</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>dns_health_check_domain_list</th>
</tr>
</thead>
</table>

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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>dns_health_check_interval</code></td>
<td>The time interval (in seconds) for DNS health check.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is 30.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><code>dns_health_check_recursion_flag</code></td>
<td>Determines if the recursive DNS health check is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <code>False</code>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><code>dns_health_check_retries</code></td>
<td>The number of DNS health check retries.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is 3.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><code>dns_health_check_timeout</code></td>
<td>The DNS health check timeout interval (in seconds).</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
</tbody>
</table>

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Create
The default value is 3.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>dns_query_capture_file_time_limit</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>dnssec_blacklist_enabled</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>dnssec_dns64_enabled</th>
</tr>
</thead>
</table>

**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**

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**

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**

This structure contains the DNSSEC key parameters for this zone.

**Type**

A/An `DNSSEC Key parameters` struct.

**Create**

The default value is:

```python
{ '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': 10,
  'nsec3_salt_max_length': 15,
  'nsec3_salt_min_length': 1,
  '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**

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**

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.

---

**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_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**

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_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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>email</strong></td>
<td>The email address of a Grid DNS object.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>empty.</em></td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>enable_blackhole</strong></td>
<td>Determines if the blocking of DNS queries is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False.</em></td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>enable_blacklist</strong></td>
<td>Determines if a blacklist is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False.</em></td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>enable_capture_dns_queries</strong></td>
<td>Determines if the capture of DNS queries is enabled or disabled.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
</tbody>
</table>

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.

**Type**
Bool.

Create
The default value is False.

Search
The field is not available for search.
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

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

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_dtc_dns_fall_through
Determines whether to enable the DTC to DNS fall-through or not.

**Type**
Bool.

**Create**
The default value is True.

**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**
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Create</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_gss_tsig</strong></td>
<td>Determines whether all appliances in the Grid are enabled to receive GSS-TSIG authenticated updates from DNS clients.</td>
<td>Bool.</td>
<td>The default value is <em>False.</em></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>enable_host_rrset_order</strong></td>
<td>Determines if the host RRset order is enabled or not.</td>
<td>Bool.</td>
<td>The default value is <em>False.</em></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>enable_hsm_signing</strong></td>
<td>Determines whether Hardware Security Modules (HSMs) are enabled for key generation and signing. Note, that you must configure HSM group with at least one enabled HSM.</td>
<td>Bool.</td>
<td>The default value is <em>False.</em></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**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**

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**

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**

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

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

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

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.

<table>
<thead>
<tr>
<th>filter_aaaa_list</th>
</tr>
</thead>
</table>

*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.

<table>
<thead>
<tr>
<th>fixed_rrset_order_fqdns</th>
</tr>
</thead>
</table>

*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.

<table>
<thead>
<tr>
<th>forward_only</th>
</tr>
</thead>
</table>

*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.

### 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.

### lame_ttl

**lame_ttl**
The number of seconds to cache lame delegations or lame servers.

**Type**
Unsigned integer.

**Create**
The default value is 600.

**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:

```python
{ '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.

---

### maxCachedLifetime

**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.

---

**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.

<table>
<thead>
<tr>
<th>notify_delay</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>notify_source_port</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>nsgroup_default</th>
</tr>
</thead>
</table>

**nsgroup_default**
The default nameserver group.

**Type**
String.

**Create**
The default value is *undefined*.

Search
The field is not available for search.
**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**

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**

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**

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 `[['regex': '^\[a-zA-Z0-9\]$|^\[a-zA-Z0-9\]-[a-zA-Z0-9]*[a-zA-Z0-9]$', 'is_default': False, 'name': 'Strict Hostname Checking'], ['regex': '^[a-zA-Z0-9\_]+$', 'is_default': True, 'name': 'Allow Underscore'], ['regex': '.+', 'is_default': False, 'name': 'Allow Any']].`

**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

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

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

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

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

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

The response rate limiting settings for the member.

Type
A/An DNS Response Rate Limiting struct.

Create
The default value is:

```python
{ '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:

```json
{ '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.

### 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_recursive**

*rpz_qname_wait_recursive*
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 and Unbound DNS.

**Type**
String.
Valid values are:

- HOSTNAME
- NONE

Create
The default value is *NONE*.

Search
The field is not available for search.

**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**

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**

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
transfers_in

The number of maximum concurrent transfers for the Grid.
Valid values are unsigned integer between 10 and 100, inclusive.

Type
Unsigned integer.
Create
The default value is 10.
Search
The field is not available for search.

transfers_out

The number of maximum outbound concurrent zone transfers.
Valid values are unsigned integer between 10 and 100, inclusive.

Type
Unsigned integer.
Create
The default value is 10.
Search
The field is not available for search.

transfers_per_ns

The number of maximum concurrent transfers per member.
Valid values are unsigned integer between 2 and 100, inclusive.

Type
Unsigned integer.
Create
The default value is 2.
Search
The field is not available for search.
### 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_bulkhost_ddns</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_gss_tsig_zone_updates</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_query</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_recursive_query</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_transfer</td>
<td>[struct]</td>
<td>N</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_update</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>anonymize_response_logging</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>attack_mitigation</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto_blackhole</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bind_check_names_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bind_hostname_directive</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>blackhole_list</td>
<td>[struct]</td>
<td>N</td>
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<td>blacklist_action</td>
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<td>blacklist_log_query</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>blacklist_redirect_addresses</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>blacklist_redirect_ttl</td>
<td>Unsigned int</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>blacklist_rulesets</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>bulk_host_name_templates</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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</tr>
<tr>
<td>sortlist</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>store_locally</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>syslog_facility</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>transfer_excluded_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>transfer_format</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>transfers_in</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>transfers_out</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>transfers_per_ns</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>zone_deletion_double_confirm</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.87 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:** grid:filedistribution/ ZG5zLm9wdGlvd9kZiWZpbml0aW9uJGlwZm8uLmZhbHNlLjI1Mg:Infoblox

**Restrictions**

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on the 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.

#### 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**

allow_uploads is part of the base object.

#### backup_storage

**backup_storage**

Determines whether to include distributed files in 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 usage of the allocated TFTP storage space 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
current_usage is part of the base object.
current_usage cannot be updated.
current_usage cannot be written.

<table>
<thead>
<tr>
<th>enable_anonymous_ftp</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>global_status</th>
</tr>
</thead>
</table>

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
global_status is part of the base object.
global_status cannot be updated.
global_status cannot be written.
name
The Grid name.

Type
String.

Search
The field is available for search via
  • ‘=' (exact equality)

Notes
name is part of the base object.
name cannot be updated.
name cannot be written.

storage_limit
storage_limit
The maximum storage in megabytes allowed on the Grid. Maximum storage space allowed for all file distribution services on a Grid is equal to the storage space allowed 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
storage_limit is part of the base object.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_uploads</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>backup_storage</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>current_usage</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_anonymous_ftp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>global_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>storage_limit</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.88 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: grid:license_pool/b251LmxpY2Vuc2VfcG9vbCRkaGNwLjEw:DHCP/IB-VM-1410/100

**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 the 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.

**assigned**

The number of dynamic licenses allocated to vNIOS appliances.

**Type**

Unsigned integer.

**Search**

The field is not available for search.

**Notes**

assigned cannot be updated.
assigned cannot be written.

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
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
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**
installed cannot be updated.
installed cannot be written.

---

**key**

The license string for the license pool.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
key cannot be updated.
key cannot be written.

---

**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**
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**
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**
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
subpools cannot be updated.
subpools cannot be written.

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
temp_assigned cannot be updated.
temp_assigned cannot be written.

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
- FREQ_CONTROL
- GRID
Search
The field is available for search via
  • ‘=’ (exact equality)

Notes
type is part of the base object.
type cannot be updated.
type cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>assigned</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>expiration_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>expiry_date</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>installed</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>key</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit_context</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>model</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>subpools</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>temp_assigned</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.89 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: grid:license_pool_container/b25ILmxpY2Vuc2VfcG9vbF:LicensePoolContainer

### 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 the 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.
**last_entitlement_update**

The timestamp when the last pool licenses were updated.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_entitlement_update cannot be updated.
last_entitlement_update cannot be written.

**lpc_uid**

The world-wide unique ID for the license pool container.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
lpc_uid cannot be updated.
lpc_uid 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_entitlement_update</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lpc_uid</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.90 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: grid:maxminddbinfo/ZGldHdvcmtfdmldyQxMTk:maxminddbinfo/GEOIP

### 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 the 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.

**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**
- binary_major_version is part of the base object.
- binary_major_version cannot be updated.
- binary_major_version cannot be written.

---

**binary_minor_version**

The minor version of DB binary format.

**Type**
Unsigned integer.

**Search**
The field is not available for search.

**Notes**
- binary_minor_version is part of the base object.
- binary_minor_version cannot be updated.
- binary_minor_version cannot be written.

---

**build_time**

The time at which the DB was built.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
- build_time is part of the base object.
- build_time cannot be updated.
- build_time cannot be written.
### database_type

**The structure of data records (“GeoLite2-Country”, GeoLite2-City”, etc.).**

**Type**
String.

**Search**
The field is not available for search.

**Notes**
database_type is part of the base object.
database_type cannot be updated.
database_type cannot be written.

### deployment_time

**The time at which the current Topology DB was deployed.**

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
deployment_time is part of the base object.
deployment_time cannot be updated.
deployment_time cannot be written.

### member

**The member for testing the connection.**

**Type**
String.

**Search**
The field is not available for search.

**Notes**
member is part of the base object.
member cannot be updated.
member cannot be written.
**topology_type**

The topology type.

**Type**

String.

**Valid values are:**

- EA
- GEOIP

**Search**

The field is available for search via

- ‘=’ (exact equality)

**Notes**

topology_type is part of the base object.

topology_type cannot be updated.

topology_type cannot be written.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>binary_major_version</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>binary_minor_version</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>build_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>database_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>deployment_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>topology_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

3.91 **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: grid:member:cloudapi/ZGlhdvcmtfdmlldyQxMTk:member1
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.

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

allow_api_admins is part of the base object.

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
allowed_api_admins is part of the base object.

<table>
<thead>
<tr>
<th>enable_service</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_service</td>
</tr>
<tr>
<td>Controls whether the Cloud API service runs on the member or not.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>enable_service is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>extattrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>extattrs</td>
</tr>
<tr>
<td>Extensible attributes associated with the object.</td>
</tr>
<tr>
<td>For valid values for extensible attributes, see the following information.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Extensible attributes.</td>
</tr>
<tr>
<td>This field allows +/- to be specified as part of the field name when updating the object, see the following information.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>For how to search extensible attributes, see the following information.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>extattrs cannot be updated.</td>
</tr>
<tr>
<td>extattrs cannot be written.</td>
</tr>
</tbody>
</table>
**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**

The related Grid Member.

**Type**
A/An *Grid member serving DHCP* struct.

**Search**
The field is not available for search.

**Notes**
member is part of the base object.
member cannot be updated.
member cannot be written.

**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

status is part of the base object.
status cannot be updated.
status 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 for the Member Cloud API object; maximum 256 characters.

Type

String.

Search

The field is available for search via

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

Notes

comment is a search-only field.

**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**

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**

The host name of related Member.

**Type**

String.

**Search**

The field is available for search via

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**

name is a search-only field.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_api_admins</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>allowed_api_admins</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_service</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>gateway_config</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>=~</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>=~</td>
</tr>
</tbody>
</table>

### 3.92 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: grid:servicerestart:group/ZG5zLmJpbmRfY25h:restartgroup1

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>service</td>
<td></td>
</tr>
</tbody>
</table>

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

Notes
Comment is part of the base object.

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

Determines if this Restart Group is the default group.

Type
Bool.

Search
The field is available for search via
  • ‘=’ (exact equality)
Notes
is_default cannot be updated.
is_default cannot be written.

<table>
<thead>
<tr>
<th>last_updated_time</th>
</tr>
</thead>
</table>

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
last_updated_time cannot be updated.
last_updated_time cannot be written.

<table>
<thead>
<tr>
<th>members</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>mode</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>position</th>
</tr>
</thead>
</table>

**position**
The order to restart.

**Type**
Unsigned integer.

Search
The field is not available for search.

**Notes**
position cannot be updated.
position cannot be written.

<table>
<thead>
<tr>
<th>recurring_schedule</th>
</tr>
</thead>
</table>

**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**

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**

service is part of the base object.
**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**

status cannot be updated.

status cannot be written.

---

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>is_default</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>last_updated_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>members</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>position</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recurring_schedule</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>requests</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>service</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---

3.93 **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 the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>groups</td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>groups</td>
<td>[String]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.94 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: grid:servicerestart:request/ZG5zLmJpbmRfY25h:infoblox.com

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 the 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.

error

error

The error message if restart has failed.

Type

String.

Search

The field is not available for search.

Notes

error is part of the base object.
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**
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**
group is part of the base object.
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**
last_updated_time cannot be updated.
last_updated_time cannot be written.
member

The member to restart.

Type
String.

Search
The field is available for search via
- ‘=’ (exact equality)

Notes
member cannot be updated.
member cannot be written.

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
needed cannot be updated.
needed cannot be written.

order

The order to restart.

Type
Integer.

Search
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
result is part of the base object.
result cannot be updated.
result cannot be written.

service

The service to restart.

Type
String.
Valid values are:
- DHCPV4
- DHCPV6
- DNS

Search
The field is not available for search.

Notes
service cannot be updated.
service cannot be written.
state

The state of the request.

Type
String.

Valid values are:
- FINISHED
- NEW
- PROCESSING
- QUEUED

Search
The field is not available for search.

Notes
state is part of the base object.
state cannot be updated.
state cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>error</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>forced</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>group</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>last_updated_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>needed</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>order</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>result</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>service</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.95 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: grid:servicerestart:request:changedobject/ZGldHdsvcmxMTk:changedobject

**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 the 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**.

**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**

action is part of the base object.
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**
changed_properties is part of the base object.
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**
changed_time is part of the base object.
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**
object_name is part of the base object.
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**
object_type is part of the base object.
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

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

**Notes**
user_name is part of the base object.
user_name cannot be updated.
user_name 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**

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**

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>action</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>changed_properties</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>changed_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>object_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>object_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>user_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>
3.96 `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 the 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**
The number of failed requests.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
failures is part of the base object.
failures cannot be updated.
failures cannot be written.

finished

The number of finished requests.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
finished is part of the base object.
finished cannot be updated.
finished cannot be written.

grouped

The type of grouping.

Type
String.

Valid values are:
• GRID
• GROUP

Search
The field is not available for search.

Notes
grouped is part of the base object.
grouped cannot be updated.
grouped cannot be written.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>needed_restart</strong></td>
<td>The number of created yet unprocessed requests for restart.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>needed_restart is part of the base object.</td>
</tr>
<tr>
<td></td>
<td>needed_restart cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>needed_restart cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>no_restart</strong></td>
<td>The number of requests that did not require a restart.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>no_restart is part of the base object.</td>
</tr>
<tr>
<td></td>
<td>no_restart cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>no_restart cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>parent</strong></td>
<td>A reference to the grid or grid:servicerestart:group object associated with the request.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
</tbody>
</table>

©Infoblox Inc. All Rights Reserved
Notes
parent is part of the base object.
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**
pending is part of the base object.
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**
pending_restart is part of the base object.
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
processing is part of the base object.
processing cannot be updated.
processing cannot be written.

<table>
<thead>
<tr>
<th>restarting</th>
</tr>
</thead>
</table>
restarting
The number of service restarts for corresponding members.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
restarting is part of the base object.
restarting cannot be updated.
restarting cannot be written.

<table>
<thead>
<tr>
<th>success</th>
</tr>
</thead>
</table>
success
The number of requests associated with successful restarts.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
success is part of the base object.
success cannot be updated.
success cannot be written.

<table>
<thead>
<tr>
<th>timeouts</th>
</tr>
</thead>
</table>
timeouts
The number of timeout requests.

Type
Unsigned integer.

Search
The field is not available for search.

Notes

timeouts is part of the base object.
timeouts cannot be updated.
timeouts cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>failures</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>finished</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>grouped</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>needed_restart</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>no_restart</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>parent</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>pending</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
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<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>processing</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>restarting</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>success</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>timeouts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.97 grid:threatanalytics : Grid threat analytics object.

To mitigate DNS data exfiltration, Infoblox DNS threat analytics employs analytics algorithms to detect DNS tunneling traffic by analyzing incoming DNS queries and responses.

The Grid threat analytics object contains settings and information about updates download, mitigation response policy zone to which queries on blacklisted domains are transferred.

Object Reference

References to grid:threatanalytics are object references.

The name part of the Grid threat analytics object reference has the following components:

- The name of the Grid

Example: grid:threatanalytics/ ZG5zLm9wdGlvb19kZmZpbml0aW9uJGluZm8uLmZhbHNILjI1Mg:Infoblox

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on the 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`.

### current_moduleset

**current_moduleset**

The current threat analytics module set.

**Type**

String.

This field supports nested return fields as described [here](#).

**Search**

The field is not available for search.

**Notes**

- current_moduleset cannot be updated.
- current_moduleset cannot be written.

### dns_tunnel_black_list_rpz_zones

**dns_tunnel_black_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.

### enable_auto_download

**enable_auto_download**

Determines whether the automatic threat analytics module set download is enabled.

**Type**

Bool.

**Create**

The default value is `False`. 
**enable_scheduled_download**

Determines whether the scheduled download of the threat analytics module set is enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**Notes**

enable_scheduled_download is part of the base object.

**last_checked_for_update**

The last time when the threat analytics module set was checked for the update.

**Type**

Timestamp.

**Search**

The field is not available for search.

**Notes**

last_checked_for_update cannot be updated.

last_checked_for_update cannot be written.

**last_module_update_time**

The last update time for the threat analytics module set.

**Type**

Timestamp.

**Search**

The field is not available for search.
### last_module_update_version

**last_module_update_version**
The version number of the last updated threat analytics module set.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
last_module_update_version cannot be updated.
last_module_update_version cannot be written.

### last_whitelist_update_time

**last_whitelist_update_time**
The last update time for the threat analytics whitelist.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_whitelist_update_time cannot be updated.
last_whitelist_update_time cannot be written.

### last_whitelist_update_version

**last_whitelist_update_version**
The version number of the last updated threat analytics whitelist.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
last_whitelist_update_version cannot be updated.
last_whitelist_update_version cannot be written.
module_update_policy

module_update_policy
The update policy for the threat analytics module set.

Type
String.

Valid values are:
- AUTOMATIC
- MANUAL

Create
The default value is AUTOMATIC.

Search
The field is not available for search.

Notes
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
name is part of the base object.
name cannot be updated.
name cannot be written.

scheduled_download

scheduled_download
The schedule settings for the threat analytics module set download.

Type
A/An Schedule Setting struct.

Create
The default value is empty.
Search

The field is not available for search.

Function Calls

**download_threat_analytics_moduleset_update**

Use this method to download and apply update for the threat analytics 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_blacklist_rpz_to_white_list**

Use this function to replace blacklist RPZ with analytics white 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 analytics whitelists.

**Output fields**

None

**set_lastUploaded_threat_analytics_moduleset**

Use this method to set last uploaded threat analytics moduleset.

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_analytics_server_connectivity**

Use this method to test threat analytics 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_analytics_moduleset**

Use this method to update threat analytics moduleset.

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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>current_moduleset</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_tunnel_black_list_rpz_zones</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_auto_download</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_scheduled_download</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>last_checked_for_update</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_module_update_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_module_update_version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_whitelist_update_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_whitelist_update_version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>module_update_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>scheduled_download</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---

**3.98 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:** grid:threatprotection/YXRwLmNsXN0ZXFyYXRwX3Byb3BlcnRpZXMkMA:Infoblox

---

**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 the 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.

### 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_auto_download

**enable_auto_download**

©Infoblox Inc. All Rights Reserved
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.

<table>
<thead>
<tr>
<th>grid_name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>grid_name</strong></td>
</tr>
<tr>
<td>The Grid name.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>grid_name is part of the base object.</td>
</tr>
<tr>
<td>grid_name cannot be updated.</td>
</tr>
<tr>
<td>grid_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>last_checked_for_update</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>last_checked_for_update</strong></td>
</tr>
<tr>
<td>The time when the Grid last checked for updates.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>last_checked_for_update cannot be updated.</td>
</tr>
<tr>
<td>last_checked_for_update cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>last_rule_update_timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>last_rule_update_timestamp</strong></td>
</tr>
<tr>
<td>The last rule update timestamp.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>last_rule_update_timestamp cannot be updated.</td>
</tr>
<tr>
<td>last_rule_update_timestamp cannot be written.</td>
</tr>
</tbody>
</table>
**last_rule_update_version**

The version of last rule update.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

last_rule_update_version cannot be updated.
last_rule_update_version cannot be written.

---

**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.

---

**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**

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.

### Function Calls

#### atp_object_reset

This function is used to invoke factory reset on 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 rule, ruleset, or category.
- **delete_custom_rules** (Bool.). This parameter is mandatory. Determines if custom rules will be deleted. Applicable only if atp_object is ruleset or category. The default value is “False”.

**Output fields**
None

#### test_atp_server_connectivity

This function is used to test 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.) The list of errors occurred.
- **overall_status** (String. Valid values are: “SUCCESS”, “FAILED”) The overall status of the test.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>current_ruleset</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>disable_multiple_dns_tcp_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>enable_auto_download</td>
<td>Bool</td>
<td>N</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_nat_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>enable_scheduled_download</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>events_per_second_per_rule</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>N/A</td>
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<tr>
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<td>Timestamp</td>
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<td>Y</td>
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<td>last_rule_update_timestamp</td>
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<td>N/A</td>
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<td>N</td>
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<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---


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 Grid x509certificate

Example: grid:x509certificate/ZGlhdvcmtfdmlldyQxMTk:serialnum1

### 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 the 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**.

<table>
<thead>
<tr>
<th>issuer</th>
</tr>
</thead>
</table>

**issuer**

Certificate issuer.

**Type**

String.

**Search**

The field is available for search via
- `':='` (case insensitive search)
- `=' (exact equality)
- `~=` (regular expression)

**Notes**

issuer is part of the base object.
issuer cannot be updated.
issuer cannot be written.

<table>
<thead>
<tr>
<th>serial</th>
</tr>
</thead>
</table>

**serial**

X509 Certificate serial number.

**Type**

String.

**Search**

The field is available for search via
- `':='` (case insensitive search)
- `=' (exact equality)
- `~=` (regular expression)

**Notes**

serial is part of the base object.
serial cannot be updated.
serial cannot be written.
subject

A Distinguished Name that is made of multiple relative distinguished names (RDNs).

Type
String.

Search
The field is available for search via
- := (case insensitive search)
- = (exact equality)
- ~= (regular expression)

Notes
subject is part of the base object.
subject cannot be updated.
subject cannot be written.

valid_not_after

valid_not_after
Certificate expiry date.

Type
Timestamp.

Search
The field is available for search via
- != (negative search)
- = (exact equality)
- <= (less than search)
- >= (greater than search)

Notes
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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes

valid_not_before cannot be updated.
valid_not_before cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>issuer</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>serial</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>subject</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>valid_not_after</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>valid_not_before</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>! &lt;= &gt;</td>
</tr>
</tbody>
</table>

3.100 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: hostnamerewritepolicy/ ZG5zLm9wdGlvbHl9kZWpmbml0aW9uJGlhZm8uLmZhbHNIILjI1Mg:Default

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 the 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, valid_characters**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>replacement_character</td>
<td></td>
</tr>
<tr>
<td>valid_characters</td>
<td></td>
</tr>
</tbody>
</table>

#### is_default

**is_default**

True if the policy is the Grid default.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

is_default cannot be updated.

#### 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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
Notes
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*
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*
replacement_character is part of the base object.

**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
valid_characters is part of the base object.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>is_default</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>pre_defined</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>replacement_character</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_characters</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.101 hsm:allgroups : All Hardware Security Module groups object.

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 the 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.
The list of HSM groups configured on the appliance.

Type

An array of the following objects: `hsm:safenetgroup`, `hsm:thalesgroup`.

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

groups is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>groups</td>
<td>obj</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>


You can integrate a Grid with third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing off-loading. 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 SafeeNet 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 Thales HSM object reference has the following components:

- The HSM SafeNet group name

**Example:** `hsm:safenetgroup/ZG5zUm9wdGlvdGlwb9kZWZpbmU0aW9uJGlzZm8uLmZhbHNlLjI1Mg: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 the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>hsm_safenet</td>
<td></td>
</tr>
<tr>
<td>hsm_version</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>pass_phrase</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

**comment**

The HSM SafeNet group comment.

**Type**

String.

**Create**

The default value is empty.

**Search**

The field is available for search via

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

**Notes**

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**
group_sn cannot be updated.
group_sn cannot be written.

<table>
<thead>
<tr>
<th>hsm_safenet</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>hsm_version</th>
</tr>
</thead>
</table>

**hsm_version**
The HSM SafeNet version.

**Type**
String.

**Valid values are:**
- LunaSA_4
- LunaSA_5
- LunaSA_6

**Create**
The field is required on creation.

**Search**
The field is not available for search.

**Notes**
hsm_version is part of the base object.
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

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

*Notes*
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

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 vendor's utilities.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>group_sn</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>hsm_safenet</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>hsm_version</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>pass_phrase</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

You can integrate a Grid with third-party, network-attached Hardware Security Modules (HSMs) for secure private key storage and generation, and zone-signing off-loading. 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 Thales HSM object reference has the following components:

- The Thales HSM group name

Example: hsm:thalesgroup/ ZG5zLm9wdGlvd9kZWZpbml0aW9uJGlubmV4eWxlbm9yZm8uLmZhbHNIJjI1Mg: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 the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>key_server_ip</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>pass_phrase</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>thales_hsm</td>
<td></td>
</tr>
</tbody>
</table>

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

**Notes**
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**
key_server_ip is part of the base object.
**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**

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

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

**Notes**
name is part of the base object.

**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.

<table>
<thead>
<tr>
<th>protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>protection</td>
</tr>
<tr>
<td>The level of protection that HSM group uses for the DNSSEC key data.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• MODULE</td>
</tr>
<tr>
<td>• SOFTCARD</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is MODULE.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>status</td>
</tr>
<tr>
<td>The status of all Thales HSM devices in the group.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• DOWN</td>
</tr>
<tr>
<td>• UP</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>status cannot be updated.</td>
</tr>
<tr>
<td>status cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>thales_hsm</th>
</tr>
</thead>
<tbody>
<tr>
<td>thales_hsm</td>
</tr>
<tr>
<td>The list of Thales HSM devices.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>A/An Thales Hardware Security Module struct array.</td>
</tr>
<tr>
<td>Create</td>
</tr>
</tbody>
</table>
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 the 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 vendor’s utilities.

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>key_server_ip</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>key_server_port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>:= ~</td>
</tr>
<tr>
<td>pass_phrase</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>protection</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>thales_hsm</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

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 the 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**
cidr is part of the base object.
cidr cannot be updated.
cidr cannot be written.

**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**

conflict_count cannot be updated.
conflict_count cannot be written.

**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**

ms_ad_user_data cannot be updated.
ms_ad_user_data cannot be written.

**network**

The network address.

**Type**

String.

**Search**

The field is available for search via

- ‘=’ (exact equality)
- ‘~*’ (regular expression)
Notes
network is part of the base object.
network cannot be updated.
network cannot be written.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
</tr>
<tr>
<td>The network view.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>network_view is part of the base object.</td>
</tr>
<tr>
<td>network_view cannot be updated.</td>
</tr>
<tr>
<td>network_view cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>unmanaged_count</th>
</tr>
</thead>
<tbody>
<tr>
<td>unmanaged_count</td>
</tr>
<tr>
<td>The number of unmanaged IP addresses as discovered by network discovery. This attribute is only valid for a Network object.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>unmanaged_count cannot be updated.</td>
</tr>
<tr>
<td>unmanaged_count cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>utilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>utilization</td>
</tr>
<tr>
<td>The network utilization in percentage.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
</table>
The field is not available for search.

Notes
utilization cannot be updated.
utilization cannot be written.

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
utilization_update cannot be updated.
utilization_update cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>cidr</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>conflict_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>unmanaged_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>utilization</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>utilization_update</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.105 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/Li5pcHY0X2FkJc3MKMTAuMC4wLjEvMQ: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 the 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, username.

**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**

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

**Notes**
dhcp_client_identifier is part of the base object.
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**
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**
discovered_data cannot be updated.
discovered_data cannot be written.

---

**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**

**DHCP fingerprint** for the address.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
ip_address is part of the base object.
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**
is_conflict is part of the base object.
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.
### 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**  
lease_state is part of the base object.  
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  
- `:=` (case insensitive search)  
- `=` (exact equality)  
- `~=` (regular expression)  

**Notes**  
mac_address is part of the base object.  
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**
*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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

**Notes**
*names* is part of the base object.

*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
network is part of the base object.
network cannot be updated.
network cannot be written.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
</tr>
<tr>
<td>The name of the network view.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>network_view is part of the base object.</td>
</tr>
<tr>
<td>network_view cannot be updated.</td>
</tr>
<tr>
<td>network_view cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>objects</td>
</tr>
<tr>
<td>The objects associated with the IP address.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>objects is part of the base object.</td>
</tr>
<tr>
<td>objects cannot be updated.</td>
</tr>
<tr>
<td>objects cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>reserved_port</th>
</tr>
</thead>
<tbody>
<tr>
<td>reserved_port</td>
</tr>
<tr>
<td>The reserved port for the address.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
</tbody>
</table>
**Search**  
The field is not available for search.

**Notes**  
reserved_port cannot be updated.  
reserved_port cannot be written.

<table>
<thead>
<tr>
<th>status</th>
</tr>
</thead>
</table>

**status**  
The current status of the address.  

**Type**  
String.

**Search**  
The field is available for search via  
- `'='` (exact equality)

**Notes**  
status is part of the base object.  
status cannot be updated.  
status cannot be written.

<table>
<thead>
<tr>
<th>types</th>
</tr>
</thead>
</table>

**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**  
types is part of the base object.  
types cannot be updated.  
types cannot be written.
**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**

usage is part of the base object.

usage cannot be updated.

usage cannot be written.

**username**

The name of the user who created or modified the record.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

username is part of the base object.

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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.ap_ip_address</strong></td>
<td>Discovered IP address of Wireless Access Point.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td>discovered_data.ap_ip_address is a search-only field.</td>
</tr>
<tr>
<td><strong>discovered_data.ap_name</strong></td>
<td>Discovered name of Wireless Access Point.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td></td>
</tr>
<tr>
<td><strong>discovered_data.ap_ssid</strong></td>
<td>Service set identifier (SSID) associated with Wireless Access Point.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td></td>
</tr>
</tbody>
</table>
discovered_data.ap_ssid is a search-only field.

**discovered_data.bridge_domain**

Discovered bridge domain.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.bridge_domain is a search-only field.

**discovered_data.cisco_ise_endpoint_profile**

The Cisco ISE Endpoint Profile.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.cisco_ise_endpoint_profile is a search-only field.

**discovered_data.cisco_ise_security_group**

The Cisco ISE security group name.

**Type**

String.
Search
The field is available for search via

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

Notes
discovered_data.cisco_ise_security_group is a search-only field.

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
The Cisco ISE SSID.

Type
String.

Search
The field is available for search via

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

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

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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

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

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

**Notes**
`discovered_data.device_vendor` is a search-only field.
### 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

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

**Notes**

discovered_data.discovered_name is a search-only field.

### 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

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

**Notes**

discovered_data.discoverer is a search-only field.

### discovered_data.endpoint_groups

**A comma-separated list of discovered endpoint groups.**

**Type**

String.

**Search**

The field is available for search via

- `':='` (case insensitive search)
- `'=='` (exact equality)
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
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

The port redundant group number.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.iprg_no is a search-only field.
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
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.last_discovered is a search-only field.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.mac_address is a search-only field.

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

Notes
discovered_data.mgmt_ip_address is a search-only field.

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

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
• ‘_:’ (case insensitive search)
• ‘_=’ (exact equality)
• ‘~_=' (regular expression)

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
• ‘_:’ (case insensitive search)
• ‘_=’ (exact equality)
• ‘~_=' (regular expression)

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

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

**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

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

**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

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

**Notes**
discovered_data.network_component_model is a search-only field.
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.network_component_name is a search-only field.

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

**Notes**
discovered_data.network_component_port_description is a search-only field.

**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
- `:=` (case insensitive search)
- `=` (exact equality)
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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes

discovered_data.network_component_port_number is a search-only field.

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

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

Notes

discovered_data.network_component_type is a search-only field.

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

**Notes**
discovered_data.network_component_vendor is a search-only field.

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

**Notes**
discovered_data.open_ports is a search-only field.

### 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
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

Notes
discovered_data.port_duplex is a search-only field.

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

Notes
discovered_data.port_link_status is a search-only field.

discovered_data.port_speed

The interface speed, in Mbps, of the switch port.

Type
String.

Search
The field is available for search via
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

The type of switch port.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.port_type is a search-only field.

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
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

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

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

- `':!='` (negative search)
- `':='` (exact equality)
- `':<=='` (less than search)
- `':>=='` (greater than search)

Notes
discovered_data.port_vlan_number is a search-only field.
**discovered_data.task_name**

The name of the discovery task.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.task_name is a search-only field.

**discovered_data.tenant**

Discovered tenant.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.tenant is a search-only field.

**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
- `:=` (case insensitive search)
- `=` (exact equality)
• ‘~=' (regular expression)

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

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

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

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

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

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

Notes

discovered_data.v_host is a search-only field.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.v_switch is a search-only field.

discovered_data.vlan_port_group

Port group which the virtual machine belongs to.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.vlan_port_group is a search-only field.

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

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

**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

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

**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”.
**discovered_data.vmhost_nic_names**

String.

**Search**

The field is available for search via

- `:=` (case insensitive search)
- `=`, `~=` (exact equality)

**Notes**

`discovered_data.vmhost_nic_names` is a search-only field.

**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

- `!=` (negative search)
- `=`, `<=`, `>=` (exact equality)

**Notes**

`discovered_data.vmhost_subnet_cidr` is a search-only field.

**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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>discovered_data.vmi_ip_type</code></td>
<td>Discovered IP address type. Type: String. Search: The field is available for search via <code>:=</code> (case insensitive search), <code>=</code> (exact equality), <code>~=</code> (regular expression). Notes: <code>discovered_data.vmi_ip_type</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vmi_is_public_address</code></td>
<td>Indicates whether the IP address is a public address. Type: Bool. Search: The field is available for search via <code>=</code> (exact equality). Notes: <code>discovered_data.vmi_is_public_address</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vmi_name</code></td>
<td>Name of the virtual machine. Type: String. Search: The field is available for search via <code>:=</code> (case insensitive search), <code>=</code> (exact equality), <code>~=</code> (regular expression).</td>
</tr>
</tbody>
</table>
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

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

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**

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
discovered_data.vport_conf_speed is a search-only field.

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

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

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

**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
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

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

**Notes**

discovered_data.vport_speed is a search-only field.

discovered_data.vswitch_available_ports_count

**discovered_data.vswitch_available_ports_count**

*Number 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

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

**Notes**

discovered_data.vswitch_available_ports_count is a search-only field.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_id</td>
<td>ID of the virtual switch.</td>
<td>String</td>
<td>• '=' (exact equality)</td>
<td>discovered_data.vswitch_id is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Indicates the virtual switch has IPV6 enabled.</td>
<td>Bool</td>
<td>• '=' (exact equality)</td>
<td>discovered_data.vswitch_ipv6_enabled is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>Name of the virtual switch.</td>
<td>String</td>
<td>• ':=' (case insensitive search)</td>
<td>discovered_data.vswitch_name is a search-only field.</td>
</tr>
</tbody>
</table>
**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

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

**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

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

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

**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

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

**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
discovered_data.vswitch_tep_ip is a search-only field.

**discovered_data.vswitch_tep_multicast**

*Muticast address of the virtual tunnel endpoint (VTEP) in the virtual switch.*

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.vswitch_tep_multicast is a search-only field.

**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

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

**Notes**

discovered_data.vswitch_tep_port_group is a search-only field.

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

**Notes**
discovered_data.vswitch_tep_type is a search-only field.

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

**Notes**
discovered_data.vswitch_tep_vlan is a search-only field.

### 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>conflict_types</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>dhcp_client_identifier</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovered_data</td>
<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>extattrs</td>
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<td>ext</td>
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<td>String</td>
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<td>Y</td>
<td>N</td>
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</tr>
<tr>
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<td>Y</td>
<td>&lt; = &gt;</td>
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<tr>
<td>is_conflict</td>
<td>Bool</td>
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<td>Y</td>
<td>Y</td>
<td>=</td>
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<tr>
<td>is_invalid_mac</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>lease_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>mac_address</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>: = ~</td>
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<td>ms_ad_user_data</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>names</td>
<td>[String]</td>
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<td>Y</td>
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<td>=</td>
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<td>Y</td>
<td>N/A</td>
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<td>N</td>
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<td>username</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_location</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_model</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_port_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_port_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_vendor</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.discovered_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.11 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.endpoint_groups</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.iprg_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
<td>Timestamp</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.mgmt_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.netbios_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_ip</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_location</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_model</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_number</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.network_component_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_vendor</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.open_ports</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.os</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_duplex</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_link_status</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_status</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_name</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_number</td>
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<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.task_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.tenant</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_adapter</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_cluster</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_datacenter</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_name</td>
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</tr>
<tr>
<td>discovered_data.v_entity_type</td>
<td>String</td>
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</tr>
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<td>discovered_data.v_host</td>
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<td>:= ~</td>
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<tr>
<td>discovered_data.v_switch</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vlan_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_nic_names</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_subnet_cidr</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_is_public_address</td>
<td>Bool</td>
<td>=</td>
</tr>
</tbody>
</table>

Continued on next page
### Table 3.11 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vmi_name</td>
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<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_tenant_id</td>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
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</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.106 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/Li5pcHY0X2FkJc3MkMTAuMC4wLjEvMQ: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 the 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.

<table>
<thead>
<tr>
<th>conflict_types</th>
</tr>
</thead>
</table>

**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**

conflict_types cannot be updated.

cconflict_types cannot be written.

<table>
<thead>
<tr>
<th>discover_now_status</th>
</tr>
</thead>
</table>

**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**
discover_now_status cannot be updated.
discover_now_status cannot be written.

discovered

discovered
The discovered data for this address.

**Type**
A/An *Discovered data* struct.

**Search**
The field is not available for search.

**Notes**
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

- `:=` (case insensitive search)
- `=` (exact equality)
Notes
duid is part of the base object.
duid cannot be updated.
duid cannot be written.

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

DHCP fingerprint for the address.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
ip_address is part of the base object.
ip_address cannot be updated.
ip_address cannot be written.

**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**
is_conflict is part of the base object.
is_conflict cannot be updated.
is_conflict cannot be written.

**lease_state**
The lease state of the address.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes
lease_state is part of the base object.
lease_state cannot be updated.
lease_state cannot be written.

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
ms_ad_user_data cannot be updated.
ms_ad_user_data cannot be written.

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

Notes
names is part of the base object.
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**
network is part of the base object.
network cannot be updated.
network cannot be written.

---

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
</table>

**network_view**
The name of the network view.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
network_view is part of the base object.
network_view cannot be updated.
network_view cannot be written.

---

<table>
<thead>
<tr>
<th>objects</th>
</tr>
</thead>
</table>

**objects**
The objects associated with the IP address.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
objects is part of the base object.
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**
- 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**
- status is part of the base object.
- 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
types is part of the base object.
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
usage is part of the base object.
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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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

Notes
discovered_data.ap_ssid 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
• `:=` (case insensitive search)
• `=' (exact equality)
• `~=` (regular expression)

Notes

discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

The Cisco ISE Endpoint Profile.

Type

String.

Search

The field is available for search via

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

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

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

Notes

discovered_data.cisco_ise_security_group is a search-only field.

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

The Cisco ISE SSID.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=' (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.cisco_ise_ssid is a search-only field.

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

**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

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

**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

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

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

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

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

**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

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

**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

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

**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

- `:=` (case insensitive search)
- `=` (exact equality)
discovered_data.discovered_name

Notes
discovered_data.discovered_name is a search-only field.

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

Notes
discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

A comma-separated list of discovered endpoint groups.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

Notes
discovered_data.endpoint_groups is a search-only field.

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
discovered_data.first_discovered is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.iprg_no</th>
</tr>
</thead>
</table>

discovered_data.iprg_no
The port redundant group number.

Type
Unsigned integer.

Search
The field is available for search via
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
discovered_data.iprg_no is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.iprg_state</th>
</tr>
</thead>
</table>

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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.iprg_type</strong></td>
<td><strong>The port redundant group type.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Search**                    | The field is available for search via  
  - ‘=’ (exact equality)  
  - ‘!=’ (negative search)  
  - ‘<=’ (less than search)  
  - ‘>=’ (greater than search)                                                                                                                                                                                                                                                                                                                                 |
| **Notes**                     | discovered_data.iprg_type is a search-only field.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| **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  
  - ‘=’ (exact equality)  
  - ‘!=’ (negative search)  
  - ‘<=’ (less than search)  
  - ‘>=’ (greater than search)                                                                                                                                                                                                                                                                                                                                 |
| **Notes**                     | discovered_data.last_discovered is a search-only field.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| **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  
  - ‘:=’ (case insensitive search)  
  - ‘=’ (exact equality)                                                                                                                                                                                                                                                                                                                                                                                             |
Notes
discovered_data.mac_address is a search-only field.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mgmt_ip_address</td>
<td>The management IP address of the end host that has more than one IP.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
</tbody>
</table>
| Search | The field is available for search via:  
  - ‘:=’ (case insensitive search)  
  - ‘=’ (exact equality)  
  - ‘~=’ (regular expression) |
| Notes | discovered_data.mgmt_ip_address is a search-only field. |

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>netbios_name</td>
<td>The name returned in the NetBIOS reply or the name you manually register for the discovered host.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
</tbody>
</table>
| Search | The field is available for search via:  
  - ‘:=’ (case insensitive search)  
  - ‘=’ (exact equality)  
  - ‘~=’ (regular expression) |
| Notes | discovered_data.netbios_name is a search-only field. |

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_component_contact</td>
<td>Contact information from network component on which the IP address was discovered.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
</tbody>
</table>
Search
The field is available for search via

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

Notes
discovered_data.network_component_contact is a search-only field.

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

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

Notes
discovered_data.network_component_description is a search-only field.

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

• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
discovered_data.network_component_ip is a search-only field.
**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

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

**Notes**

discovered_data.network_component_location is a search-only field.

**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

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

**Notes**

discovered_data.network_component_model is a search-only field.

**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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes
discovered_data.network_component_name is a search-only field.

**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

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

Notes
discovered_data.network_component_port_description is a search-only field.

**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

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

Notes
discovered_data.network_component_port_name is a search-only field.

**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
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
discovered_data.network_component_port_number is a search-only field.

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

Notes
discovered_data.network_component_type is a search-only field.

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

Notes
discovered_data.network_component_vendor is a search-only field.
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.open_ports is a search-only field.

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

**Notes**
discovered_data.os is a search-only field.

**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

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

**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

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

**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

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

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

- ‘!=' (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=' (greater than search)

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

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

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

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

**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

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

**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

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

**Notes**
discovered_data.v_cluster is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.v_datacenter</strong></th>
</tr>
</thead>
</table>

**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

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

**Notes**
discovered_data.v_datacenter is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.v_entity_name</strong></th>
</tr>
</thead>
</table>

**discovered_data.v_entity_name**
The name of the virtual entity.

**Type**
String.

**Search**
The field is available for search via

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

**Notes**
discovered_data.v_entity_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.v_entity_type</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.v_host</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_host is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_switch</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_switch is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vlan_port_group</th>
</tr>
</thead>
</table>

discovered_data.vlan_port_group
Port group which the virtual machine belongs to.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.vlan_port_group is a search-only field.

---

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

**Notes**
discovered_data.vmhost_ip_address is a search-only field.

---

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

**Notes**
discovered_data.vmhost_mac_address is a search-only field.
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.vmhost_name is a search-only field.

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

**Notes**
discovered_data.vmhost_nic_names is a search-only field.

**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
- `!` (negative search)
- `=` (exact equality)
• ‘<=' (less than search)
• ‘>=' (greater than search)

Notes
discovered_data.vmhost_subnet_cidr is a search-only field.

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 IP address type.
Type
String.
Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
discovered_data.vmi_ip_type is a search-only field.

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

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

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

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

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.
**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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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

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

**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

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

**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.

<table>
<thead>
<tr>
<th>discovered_data.vport_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vport_name</td>
</tr>
<tr>
<td><strong>Name of the network adapter on the virtual switch connected with</strong> the virtual machine.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>- ‘=’ (exact equality)</td>
</tr>
<tr>
<td>- ‘~:=’ (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.vport_name is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.vport_speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vport_speed</td>
</tr>
<tr>
<td><strong>Actual speed of the network adapter on the virtual switch where</strong> the virtual machine connected to. Unit is kb.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- ‘!=’ (negative search)</td>
</tr>
<tr>
<td>- ‘=’ (exact equality)</td>
</tr>
<tr>
<td>- ‘&lt;=’ (less than search)</td>
</tr>
<tr>
<td>- ‘&gt;=’ (greater than search)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.vport_speed is a search-only field.</td>
</tr>
</tbody>
</table>
discovered_data.vswitch_available_ports_count

**discovered_data.vswitch_available_ports_count**

**Numeric 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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

**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

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

**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

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

Notes
discovered_data.vswitch_segment_port_group is a search-only field.

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

Notes
discovered_data.vswitch_segment_type is a search-only field.

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
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

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

**Notes**

discovered_data.vswitch_tep_ip is a search-only field.

**discovered_data.vswitch_tep_multicast**

**discovered_data.vswitch_tep_multicast**

Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.

**Type**

String.

**Search**

The field is available for search via

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

**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.
**discovered_data.vswitch_tep_port_group**

The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**discovered_data.vswitch_tep_type**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

**discovered_data.vswitch_tep_vlan**

VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.

**Notes**

discovered_data.vswitch_tep_port_group is a search-only field.

discovered_data.vswitch_tep_type is a search-only field.

discovered_data.vswitch_tep_vlan is a search-only field.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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<td>N</td>
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<td>N</td>
<td>N/A</td>
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<tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>Y</td>
<td>: =~</td>
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### Search-only Fields List

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<tr>
<th>Field</th>
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<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
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<td>discovered_data.ap_name</td>
<td>String</td>
<td>: =~</td>
</tr>
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</table>

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<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ssid</td>
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<tr>
<td>discovered_data.bridge_domain</td>
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<tr>
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Table 3.12 – continued from previous page

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<td>discovered_data.vmhost_subnet_cidr</td>
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<td>discovered_data.vmi_id</td>
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<td>discovered_data.vmi_ip_type</td>
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<td>discovered_data.vmi_private_address</td>
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<td>discovered_data.vmi_tenant_id</td>
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<td>discovered_data.vport_conf_mode</td>
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<td>discovered_data.vport_link_status</td>
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<td>discovered_data.vswitch_tep_port_group</td>
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<td>discovered_data.vswitch_tep_type</td>
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<td>discovered_data.vswitch_tep_vlan</td>
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<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>:=</td>
</tr>
</tbody>
</table>

### 3.107 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 ipv6dhcoptiondefinition are object references.
The name part of the ipv6dhcoptiondefinition object reference has the following components:
- The name of the DHCP IPv6 option definition object.

Example: ipv6dhcoptiondefinition/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uW9uJGluZm8uLmZhbmFyZm8uLmZhbHNlLjI1Mg:

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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
</tr>
</tbody>
</table>

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
code is part of the base object.
**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

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

**Notes**

name is part of the base object.

---

**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**

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
type is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>space</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

#### 3.108 ipv6dhcsockoptspace : 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 ipv6dhcopoptionspace are object references.
The name part of the ipv6dhcopoptionspace object reference has the following components:

- The name of the DHCP IPv6 option space.

Example: ipv6dhcopoptionspace/ZG5zLm9wdGlvbl9zcGFjZSribG94Li5mYWxzZQ:blox

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise_number</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes

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**
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

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

**Notes**
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*. 

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Search

The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>enterprise_number</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>option_definitions</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.109 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 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: ipv6fixedaddress/ZG5zLmJpbmRfY2F5h:abcd::1/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): `duid, ipv6addr, network_view`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>duid</td>
<td></td>
</tr>
<tr>
<td>ipv6addr</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv6prefix</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv6prefix_bits</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

#### 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.

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

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**

cloud_info cannot be updated.

cloud_info cannot be written.

calendar

**calendar**

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

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

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
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

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

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

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

**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**

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**

*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**

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 required on creation.

**Search**
The field is available for search via

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

**Notes**
duid is part of the base object.
### 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):
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/ZG54dfgsrDFEFsfLzA: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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td></td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td></td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td></td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td></td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td></td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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’,
```

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

Notes
ipv6addr is part of the base object.

**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
  • '=' (exact equality)
  • '~=' (regular expression)

**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)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ms_ad_user_data</td>
<td>The Microsoft Active Directory user related information.</td>
</tr>
<tr>
<td>Type</td>
<td>A/An Active Directory User Data struct.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>ms_ad_user_data cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>ms_ad_user_data cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>This field contains the name of this IPv6 fixed address.</td>
</tr>
<tr>
<td>Type</td>
<td>String. Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>network</td>
<td>The network to which this IPv6 fixed address belongs, in IPv6 Address/CIDR format.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is undefined.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td></td>
<td>• ‘~’ (regular expression)</td>
</tr>
</tbody>
</table>
**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**

default_network_view is part of the base object.

**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**

The preferred lifetime value for this DHCP IPv6 fixed address object.

**Type**

Unsigned integer.

**Create**

The default value is 27000.
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.

**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**
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

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
template cannot be updated.
template is not readable.

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_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
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
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 flag for: valid_lifetime
Type
Bool.
Create
The default value is False.
Search
The field is not available for search.
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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

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

Notes
discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid

Service set identifier (SSID) associated with Wireless Access Point.

Type
String.

Search
The field is available for search via
• ':=' (case insensitive search)
• '=' (exact equality)
• '~=' (regular expression)

Notes
discovered_data.ap_ssid is a search-only field.

discovered_data.bridge_domain

Discovered bridge domain.

Type
String.

Search
The field is available for search via
• ':=' (case insensitive search)
• '=' (exact equality)
• '~=' (regular expression)

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

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

**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

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

**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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

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

Notes
discovered_data.cmp_type is a search-only field.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.device_contact is a search-only field.

discovered_data.device_location

Location of device on which the IP address was discovered.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.device_location is a search-only field.

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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes

discovered_data.device_model is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_port_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.device_port_name</td>
</tr>
<tr>
<td>The system name of the interface associated with the discovered IP address.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>discovered_data.device_port_name is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.device_port_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.device_port_type</td>
</tr>
<tr>
<td>The hardware type of the interface associated with the discovered IP address.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
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<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>discovered_data.device_port_type is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.device_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.device_type</td>
</tr>
<tr>
<td>The type of end host in vendor terminology.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>
Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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

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

Notes
discovered_data.discovered_name is a search-only field.
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

discovered_data.discoverer is a search-only field.

**discovered_data.endpoint_groups**

A comma-separated list of discovered endpoint groups.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

discovered_data.endpoint_groups is a search-only field.

**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
- `!=` (negative search)
- `=` (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**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
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes

discovered_data.iprg_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.last_discovered</th>
</tr>
</thead>
</table>

**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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes

discovered_data.last_discovered is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.mac_address</th>
</tr>
</thead>
</table>

**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

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

Notes

discovered_data.mac_address is a search-only field.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
</table>
| **discovered_data.mgmt_ip_address** | The management IP address of the end host that has more than one IP.          | String   | • `:` (case insensitive search)  
• `=` (exact equality)  
• `~=` (regular expression) | discovered_data.mgmt_ip_address is a search-only field. |
| **discovered_data.netbios_name** | The name returned in the NetBIOS reply or the name you manually register for the discovered host. | String   | • `:` (case insensitive search)  
• `=` (exact equality)  
• `~=` (regular expression) | discovered_data.netbios_name is a search-only field. |
| **discovered_data.network_component_contact** | Contact information from network component on which the IP address was discovered. | String   | • `:` (case insensitive search)  
• `=` (exact equality) |                                |
discovered_data.network_component_contact is a search-only field.

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

**Notes**
discovered_data.network_component_description is a search-only field.

**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
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.network_component_ip is a search-only field.

**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
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

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

**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

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

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

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

**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
- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)
discovered_data.network_component_port_number is a search-only field.

**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

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

**Notes**

discovered_data.network_component_type is a search-only field.

**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

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

**Notes**

discovered_data.network_component_vendor is a search-only field.

**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

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

**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

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

**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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.port_link_status</td>
<td>The link status of the switch port connected to the end device. Indicates whether it is connected.</td>
<td>String</td>
<td>• '=' (exact equality)</td>
<td>discovered_data.port_link_status is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>The interface speed, in Mbps, of the switch port.</td>
<td>String</td>
<td>• '=' (exact equality)</td>
<td>discovered_data.port_speed is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.port_status</td>
<td>The operational status of the switch port. Indicates whether the port is up or down.</td>
<td>String</td>
<td>• '=' (exact equality)</td>
<td>discovered_data.port_status is a search-only field.</td>
</tr>
</tbody>
</table>
**discovered_data.port_type**

The type of switch port.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.port_type is a search-only field.

---

**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

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

**Notes**

discovered_data.port_vlan_description is a search-only field.

---

**discovered_data.port_vlan_name**

The name of the VLAN of the switch port.

**Type**

String.

**Search**

The field is available for search via

- `:=` (case insensitive search)
- `=` (exact equality)
Notes
discovered_data.port_vlan_name is a search-only field.

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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

The name of the discovery task.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.task_name is a search-only field.

discovered_data.tenant
Discovered tenant.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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

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

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

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

**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.

<table>
<thead>
<tr>
<th>discovered_data.v_host</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_host is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_switch</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_switch is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vlan_port_group</th>
</tr>
</thead>
</table>

discovered_data.vlan_port_group
Port group which the virtual machine belongs to.

**Type**
String.

**Search**
The field is available for search via
Notes
discovered_data.vlan_port_group is a search-only field.

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

Notes
discovered_data.vmhost_ip_address is a search-only field.

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

Notes
discovered_data.vmhost_mac_address is a search-only field.

discovered_data.vmhost_name

Name of the physical node on which the virtual machine is hosted.
**discovered_data.vmhost_name**

**discovered_data.vmhost_name**

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

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

**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

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

**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

- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)
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

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

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

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

**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

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

**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
Notes
discovered_data.vmi_tenant_id is a search-only field.

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
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
  • ‘!=' (negative search)
  • ‘=' (exact equality)
  • '<=' (less than search)
  • '>=' (greater than search)
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

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

**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

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

**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
**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

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

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**

discovered_data.vport_speed 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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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

Name of the virtual switch.

**Type**

String.

**Search**

The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

discovered_data.vswitch_name is a search-only field.

### 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

**Name of the network segment on which the current virtual machine/vport connected to.**

**Type**

String.

**Search**

The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
**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

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

**Notes**

discovered_data.vswitch_segment_port_group is a search-only field.

**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

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

**Notes**

discovered_data.vswitch_segment_type is a search-only field.

**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
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

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

**Notes**

discovered_data.vswitch_tep_ip is a search-only field.

**discovered_data.vswitch_tep_multicast**

**discovered_data.vswitch_tep_multicast**

Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.

**Type**

String.

**Search**

The field is available for search via

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

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

**Notes**
discovered_data.vswitch_tep_port_group is a search-only field.

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<tr>
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<tr>
<td><strong>discovered_data.vswitch_tep_type</strong></td>
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<tr>
<td>Type of virtual tunnel endpoint (VTEP) in the virtual switch.</td>
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</table>

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.vswitch_tep_type is a search-only field.

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<th>discovered_data.vswitch_tep_vlan</th>
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<tr>
<td><strong>discovered_data.vswitch_tep_vlan</strong></td>
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<tr>
<td>VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
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</table>

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**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

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<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<th>R/O</th>
<th>Base</th>
<th>Search</th>
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</table>

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

## Search-only Fields List

<table>
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<tr>
<th>Field</th>
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<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
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</tr>
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<td>discovered_data.cisco_ise_session_state</td>
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<td>discovered_data.cisco_ise_ssid</td>
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<tr>
<td>discovered_data.device_contact</td>
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<td>: = ~</td>
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<td>discovered_data.device_location</td>
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<td>discovered_data.device_model</td>
<td>String</td>
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</tr>
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<tr>
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<table>
<thead>
<tr>
<th>Field</th>
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<th>Search</th>
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<td>discovered_data.vport_conf_speed</td>
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<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>: =~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>: =~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.14 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

3.110 ipv6fixedaddresstemplate : The IPv6 fixed address template object.

The IPv6 fixed address template used to create a IPv6 fixed address objects in a quick and consistent way. IPv6 fixed address object created from a IPv6 fixed address template will inherit most properties defined in IPv6 fixed address template object so 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 a IPv6 DHCP Fixed Address template object reference has the following components:

- Name of the IPv6 fixed address template

Example: ipv6fixedaddresstemplate/ZG5zLmJpbmRfY25h:template_name

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

A descriptive comment of a IPv6 fixed address template object.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via

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

**Notes**
comment is part of the base object.

**domain_name**

The domain name of 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

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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using 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

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

The name of a 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
  - ‘:=’ (case insensitive search)
  - ‘=’ (exact equality)
  - ‘~’ (regular expression)

Notes
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_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.
**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>number_of_addresses</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>offset</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>preferred_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name_servers</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_preferred_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_valid_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.111 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: ipv6network/5ldHvvcmskMTEuMC4:abcd%3A%3A/80/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, network, network_view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>network</td>
<td></td>
</tr>
</tbody>
</table>

**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**

- 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 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

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

**Notes**

comment is part of the base object.

**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**

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**

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**

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 for this network.

Type
String.

Valid values are:
- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

**Search**
The field is not available for search.

**Notes**
discover_now_status cannot be updated.
discover_now_status cannot be written.

<table>
<thead>
<tr>
<th>discovered_bridge_domain</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_bridge_domain</strong></td>
</tr>
<tr>
<td>Discovered bridge domain.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>- ‘=’ (exact equality)</td>
</tr>
<tr>
<td>- ‘~=' (regular expression)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_tenant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_tenant</strong></td>
</tr>
<tr>
<td>Discovered tenant.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- ‘:=’ (case insensitive search)</td>
</tr>
</tbody>
</table>
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

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

Notes
discovered_vlan_id cannot be updated.
discovered_vlan_id cannot be written.

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

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

Notes
discovered_vlan_name cannot be updated.
discovered_vlan_name cannot be written.
discovery_basic_poll_settings

The discovery basic poll settings for this network.

Type
A/An Basic Poll Settings struct.

Create
The default value is:

```python
{ 'auto_arp_refresh_before_switch_port_polling': True,
'complete_ping_sweep': False,
'device_profile': False,
'netbios_scanning': False,
'port_scanning': False,
'smart_subnet_ping_sweep': False,
'snmp_collection': True,
'switch_port_data_collection_polling': 'PERIODIC',
'switch_port_data_collection_polling_interval': 3600}
```

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

The discovery blackout setting for this network.

Type
A/An Blackout Setting struct.

Create
The default value is:

```python
{ '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
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**
discovery_engine_type cannot be updated.
discovery_engine_type cannot be written.

disc **covery_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*.
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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using 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

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

The endpoints that provides data for the DHCP IPv6 Network object.

**Type**
The field is of type ciscoise:endpoint object array.

This field supports nested return fields as described [here](#).

**Search**
The field is not available for search.

**Notes**
- endpoint_sources cannot be updated.
- endpoint_sources cannot be written.

### 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_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**
- 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.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
last_rir_registration_update_status cannot be updated.
last_rir_registration_update_status cannot be written.

**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**
A/An Grid member serving DHCP struct array.

**Create**
The default value is:
empty

**Search**
The field is not available for search.

**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

**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**

`mgm_private_overridable` cannot be updated.

`mgm_private_overridable` cannot be written.

### 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**

`ms_ad_user_data` cannot be updated.

`ms_ad_user_data` cannot be written.

### 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**

_Strip._

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.

**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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    "_object_function": 'next_available_ip',
    "_parameters": {
        "exclude": ['9.0.0.1', '9.0.0.2']
    }
}
```
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
- '=' (exact equality)
- '~=' (regular expression)

Notes
network is part of the base object.

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
network_container cannot be updated.

network_container cannot be written.

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
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:

```python
[ { '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:

```python
{ '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**
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.

<table>
<thead>
<tr>
<th>rir_registration_status</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>same_port_control_discovery_blackout</th>
</tr>
</thead>
</table>

**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

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

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

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
template cannot be updated.
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

The number of unmanaged IP addresses as discovered by network discovery.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
unmanaged_count cannot be updated.
unmanaged_count cannot be written.

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 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 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 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 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 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 flag for: enable_ddns

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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 flag for: enable_ifmap_publishing

**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 flag for: recycle_leases

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### 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 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 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.

---

**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).

---

**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).

<table>
<thead>
<tr>
<th>split_network</th>
</tr>
</thead>
<tbody>
<tr>
<td>This function will split the current network into multiple smaller networks.</td>
</tr>
<tr>
<td>This function does not support multiple object matches when called as part of an atomic insertion operation.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>contains_address</th>
</tr>
</thead>
<tbody>
<tr>
<td>contains_address</td>
</tr>
<tr>
<td>When specified in searches, the returned network is the smallest network that contains this IPv6 Address.</td>
</tr>
<tr>
<td>If specified, all other search attributes are ignored, except for network_view.</td>
</tr>
</tbody>
</table>

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

contains_address is a search-only field.
**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_create_reversezone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_enable_option_fqdn</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_server_always_updates</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>delete_reason</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovered_bridge_domain</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_tenant</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_vlan_id</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_vlan_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovery_basic_poll_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_blackout_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_engine_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>discovery_member</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ifmap_publishing</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_immediate_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>endpoint_sources</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>last_rir_registration_update_sent</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_rir_registration_update_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>members</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Req</td>
<td>R/O</td>
<td>Base</td>
<td>Search</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>---------------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>mgm_private</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mgm_private_overridable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>network_container</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>port_control_blackout_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>preferred_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>restart_if_needed</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rir</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td>rir_organization</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td>rir_registration_action</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rir_registration_status</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>same_port_control_discovery_blackout</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>send_rir_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subscribe_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>unmanaged</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td>unmanaged_count</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_blackout_setting</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_domainname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_enable_option_fqdn</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_discovery_basic_polling_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name_servers</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_ifmap_publishing</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_mgm_private</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_preferred_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_subscribe_settings</td>
<td>Bool</td>
<td>N</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_valid_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_zone_associations</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>zone_associations</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Search-only Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>contains_address</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>shared_network_name</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>
3.112 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: ipv6networkcontainer/5ldHdvcmskMTEuMC4:abcd%3A%3A/80/external

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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>network</td>
<td></td>
</tr>
</tbody>
</table>

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

auto_create_reversezone cannot be updated.

auto_create_reversezone is not readable.
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 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

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

Notes
comment is part of the base object.

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

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:

```python
{
    'auto_arp_refresh_before_switch_port_polling': True,
    'complete_ping_sweep': False,
    'device_profile': False,
    'netbios_scanning': False,
    'port_scanning': False,
    'smart_subnet_ping_sweep': False,
    'snmp_collection': True,
    'switch_port_data_collection_polling': 'PERIODIC',
    'switch_port_data_collection_polling_interval': 3600
}
```

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:

```python
{'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**).

<table>
<thead>
<tr>
<th>discovery_engine_type</th>
</tr>
</thead>
</table>

**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**
discovery_engine_type cannot be updated.
discovery_engine_type cannot be written.

<table>
<thead>
<tr>
<th>discovery_member</th>
</tr>
</thead>
</table>

**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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using 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 ciscoise:.endpoint object array.
This field supports nested return fields as described here.

Search
The field is not available for search.

Notes
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.

<table>
<thead>
<tr>
<th>last_rir_registration_update_sent</th>
</tr>
</thead>
</table>

**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**
last_rir_registration_update_sent cannot be updated.
last_rir_registration_update_sent cannot be written.

<table>
<thead>
<tr>
<th>last_rir_registration_update_status</th>
</tr>
</thead>
</table>

**last_rir_registration_update_status**
Last RIR registration update status.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
last_rir_registration_update_status cannot be updated.
last_rir_registration_update_status cannot be written.

<table>
<thead>
<tr>
<th>mgm_private</th>
</tr>
</thead>
</table>

**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**

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**

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.

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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:


```json
{
    "_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

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

**Notes**

network is part of the base object.

network cannot be updated.

**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**

network_container cannot be updated.

network_container cannot be written.

**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
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:

```json
[ { '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).

<table>
<thead>
<tr>
<th>preferred_lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>preferred_lifetime</strong></td>
</tr>
<tr>
<td><strong>Use this method to set or retrieve the preferred lifetime value of a DHCP IPv6 Network Container object.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is 27000.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>preferred_lifetime is associated with the field use_preferred_lifetime (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>restart_if_needed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>restart_if_needed</strong></td>
</tr>
<tr>
<td><strong>Restarts the member service.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>restart_if_needed is not readable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>rir</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>rir</strong></td>
</tr>
<tr>
<td><strong>The registry (RIR) that allocated the IPv6 network container address space.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• NONE</td>
</tr>
<tr>
<td>• RIPE</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
</tbody>
</table>
| The field is available for search via
Notes
rir cannot be updated.
rir cannot be written.

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

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**

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**

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**

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**
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).

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)

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 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 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 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 flag for: ddns_generate_hostname

**Type**

Bool.
Create
The default value is \textit{False}.
Search
The field is not available for search.

\textbf{use\_ddns\_ttl}

Use flag for: ddns_ttl
Type
Bool.
Create
The default value is \textit{False}.
Search
The field is not available for search.

\textbf{use\_discovery\_basic\_polling\_settings}

Use flag for: discovery_basic_poll_settings
Type
Bool.
Create
The default value is \textit{False}.
Search
The field is not available for search.

\textbf{use\_domain\_name\_servers}

Use flag for: domain_name_servers
Type
Bool.
Create
The default value is \textit{False}.
Search
The field is not available for search.
**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 flag for: discovery_member, enable_discovery

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**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 flag for: options

**Type**

Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_preferred_lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_preferred_lifetime</td>
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<tr>
<td>Use flag for: preferred_lifetime</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</table>

<table>
<thead>
<tr>
<th>use_subscribe_settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_subscribe_settings</td>
</tr>
<tr>
<td>Use flag for: subscribe_settings</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</table>

<table>
<thead>
<tr>
<th>use_update_dns_on_lease_renewal</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_update_dns_on_lease_renewal</td>
</tr>
<tr>
<td>Use flag for: update_dns_on_lease_renewal</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
### 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 flag for:** zone_associations  
**Type**  
Bool.  
**Create**  
The default value is *True*.  
**Search**  
The field is not available for search.

### utilization

**The network container utilization in percentage.**  
**Type**  
Unsigned integer.  
**Search**  
The field is not available for search.  
**Notes**  
utilization cannot be updated.  
utilization 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
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<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_enable_option_fqdn</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_generate_hostname</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_server_always_updates</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
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<tr>
<td>ddns_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_basic_poll_settings</td>
<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_blackout_setting</td>
<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_engine_type</td>
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<td>N</td>
<td>=</td>
</tr>
<tr>
<td>discovery_member</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>domain_name_servers</td>
<td>[String]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ddns</td>
<td>Bool</td>
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<td>N/A</td>
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<tr>
<td>enable_discovery</td>
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<tr>
<td>enable_immediate_discovery</td>
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<tr>
<td>endpoint_sources</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>Extattr</td>
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<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>last_rir_registration_update_sent</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_rir_registration_update_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mgm_private</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mgm_private_overridable</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>String</td>
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<td>N</td>
<td>Y</td>
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<td>Y</td>
<td>N</td>
<td>=</td>
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<td>String</td>
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<td>N</td>
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<td>=</td>
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</tbody>
</table>

Continued on next page
Table 3.16 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
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<th>Search</th>
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<td>N/A</td>
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</tr>
<tr>
<td>zone_associations</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Delete Arguments List

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>remove_subnets</td>
<td>Bool</td>
</tr>
</tbody>
</table>

3.113 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: ipv6networktemplate/5ldHdvcmskMTEuMC4:abcd%3A%3A/80/external

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>cidr</td>
<td>Field cidr is required if allow_any_netmask is False.</td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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.
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.

<table>
<thead>
<tr>
<th>cidr</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>cloud_api_compatible</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
</table>

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

Notes
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**

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**

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**

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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using 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

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

### 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**

A/An *Grid member serving DHCP* 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

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

Notes

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:

```json
[ { '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.
preferred_lifetime is associated with the field `use_preferred_lifetime` (see `use flag`).

### 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

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

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
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 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 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 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 flag for:** ddns_ttl  
**Type**  
Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_domain_name</th>
</tr>
</thead>
</table>

use_domain_name
Use flag for: domain_name

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_domain_name_servers</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
</table>

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_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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_any_netmask</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto_create_reversezone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cidr</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_api_compatible</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_enable_option_fqdn</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
### Table 3.17 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ddns_server_always_updates</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ddns_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>delegated_member</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>domain_name_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>fixed_address_templates</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ipv6prefix</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>members</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>preferred_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>range_templates</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>rir</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>rir_organization</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>rir_registration_action</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>rir_registration_status</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>send_rir_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_domainname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_enable_option_fqdn</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_domain_name</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_domain_name_servers</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_preferred_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_valid_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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

### 3.114 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: ipv6range/ZG5zLmJpbmRfY25h:abcd::1/abcd::10/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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>end_addr</td>
<td>The field is required if address_type is ADDRESS/BOTH.</td>
</tr>
<tr>
<td>ipv6_end_prefix</td>
<td>The field is required if address_type is PREFIX/BOTH.</td>
</tr>
<tr>
<td>ipv6_prefix_bits</td>
<td>The field is required if address_type is PREFIX/BOTH.</td>
</tr>
<tr>
<td>ipv6_start_prefix</td>
<td>The field is required if address_type is PREFIX/BOTH.</td>
</tr>
<tr>
<td>network</td>
<td></td>
</tr>
<tr>
<td>start_addr</td>
<td>The field is required if address_type is ADDRESS/BOTH.</td>
</tr>
</tbody>
</table>

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

Notes
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**

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:

```json
{
    'auto_arp_refresh_before_switch_port_polling': True,
    'complete_ping_sweep': False,
    'device_profile': False,
    'netbios_scanning': False,
    'port_scanning': False,
    'smart_subnet_ping_sweep': False,
    'snmp_collection': True,
    'switch_port_data_collection_polling': 'PERIODIC',
    'switch_port_data_collection_polling_interval': 3600
}
```

**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:

```python
{ '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_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

DDetermines 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

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

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

**Notes**

end_addr is part of the base object.

### endpoint_sources

The endpoints that provide data for the DHCP IPv6 Range object.

**Type**

A/An ciscoise:endpoint object array.

This field supports nested return fields as described here.
Search
The field is not available for search.

Notes
epndpoint_sources cannot be updated.
epndpoint_sources cannot be written.

**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**
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**
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
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

### 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
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

### 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)

**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

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

**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

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

Notes

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**

*network_view* is part of the base object.

### 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:

```python
{ '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*).

### 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. Valid values are:

- MEMBER
- NONE
**Type**
String.

**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

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

**Notes**
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**

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**
template cannot be updated.
template is not readable.

**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 flag for: discovery_basic_poll_settings

**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_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.

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_basic_poll_settings</td>
<td>struct</td>
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<td>N</td>
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</tr>
<tr>
<td>discovery_blackout_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_member</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_immediate_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>end_addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>endpoint_sources</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>exclude</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv6_end_prefix</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>ipv6_prefix_bits</td>
<td>Unsigned int</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ipv6_start_prefix</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>member</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>port_control_blackout_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>restart_if_needed</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>same_port_control_discovery_blackout</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>server_association_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>start_addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>subscribe_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_blackout_setting</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_discovery_basic_polling_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_recycleleases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_subscribe_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Required in some cases, see detailed field description above.
3.115 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 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: ipv6rangetemplate/ZG5zLmJpbmRfY25h:templatename

**Restrictions**

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>number_of_addresses</td>
<td></td>
</tr>
<tr>
<td>offset</td>
<td></td>
</tr>
</tbody>
</table>

**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**

The IPv6 DHCP range template descriptive comment.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- `'='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**Notes**
comment is part of the base object.

**delegated_member**

The vconnector member that the object should be delegated to when created from the IPv6 DHCP range template.

**Type**
A/An *Grid member serving DHCP* struct.

**Create**
The default value is *empty*.

**Search**
The field is not available for search.

**exclude**

These are ranges of IPv6 addresses that the appliance does not use to assign to clients. You can use these exclusion addresses as static IPv6 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.

<table>
<thead>
<tr>
<th>member</th>
</tr>
</thead>
</table>

The member that will provide service for the IPv6 DHCP 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 *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)

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

The name of 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

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>number_of_addresses</th>
</tr>
</thead>
</table>


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**
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**
offset is part of the base object.

---

**recycle_leases**

**recycle_leases**
Determines whether the leases are kept in Recycle Bin until one week after expiration. 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**

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_recycle_leases**

Use flag for: recycle_leases

**Type**

Boolean.

**Create**

The default value is *False*.

**Search**

The field is not available for search.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>cloud_api_compatible</code></td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><code>comment</code></td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td><code>delegated_member</code></td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N/A</td>
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<tr>
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<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td><code>name</code></td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td><code>number_of_addresses</code></td>
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<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td><code>offset</code></td>
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<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
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<td><code>recycle_leases</code></td>
<td>Bool</td>
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<td>N/A</td>
</tr>
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<td>String</td>
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<td>N</td>
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<td>~</td>
</tr>
<tr>
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<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.116 `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: `ipv6sharednetwork/5ldHdvcmstkMTeuMC4:sharedname`

### Restrictions

The object cannot be managed on the 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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>networks</td>
<td></td>
</tr>
</tbody>
</table>
**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

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

**Notes**

*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).

<table>
<thead>
<tr>
<th>disable</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>domain_name</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>domain_name_servers</th>
</tr>
</thead>
</table>

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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using 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).

<table>
<thead>
<tr>
<th>enable_ddns</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>extattrs</th>
</tr>
</thead>
</table>

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

**Notes**
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**
network_view is part of the base object.
network_view cannot be updated.
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**

networks is part of the base object.

### 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**

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**

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 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.

<table>
<thead>
<tr>
<th>use_domain_name_servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_domain_name_servers</td>
</tr>
<tr>
<td>Use flag for: domain_name_servers</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_ddns</td>
</tr>
<tr>
<td>Use flag for: enable_ddns</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_options</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_options</td>
</tr>
<tr>
<td>Use flag for: options</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**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.

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_server_always_updates</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_ttl</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_use_option81</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
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<td>Y</td>
<td>=</td>
</tr>
<tr>
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<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
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<td>N/A</td>
</tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_use_option81</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_domain_name_servers</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_preferred_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
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<td>N/A</td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_valid_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.117 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:** kerberoskey/ ZG5zLm9wdGlvbi9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg: PRINCIPAL1/1/DES-CBC-CRC

**Restrictions**

The object does not support the following operations:

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

The object cannot be managed on the 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, version.

**domain**

*domain*

The Kerberos domain name.

*Type*

String.

*Search*

The field is available for search via

- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
Notes
domain is part of the base object.
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
enctype is part of the base object.
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
in_use is part of the base object.
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**

- 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

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

**Notes**

- principal is part of the base object.
- 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**

- upload_timestamp cannot be updated.
upload_timestamp cannot be written.

**version**

The Kerberos key version number (KVNO).

**Type**

Unsigned integer.

**Search**

The field is available for search via
- ‘!=’ (negative search)
- ‘==’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**

version is part of the base object.
version cannot be updated.
version cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>== ~</td>
</tr>
<tr>
<td>enctype</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>in_use</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>members</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>principal</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>== ~</td>
</tr>
<tr>
<td>upload_timestamp</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>version</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>! &lt;= &gt;</td>
</tr>
</tbody>
</table>

### 3.118 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
Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ldap_user_attribute</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>recovery_interval</td>
<td></td>
</tr>
<tr>
<td>retries</td>
<td></td>
</tr>
<tr>
<td>servers</td>
<td></td>
</tr>
<tr>
<td>timeout</td>
<td></td>
</tr>
</tbody>
</table>

comment

The LDAP descriptive comment.

Type

String.

Create

The default value is empty.

Search

The field is available for search via

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

Notes

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**
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:

```plaintext
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**
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
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

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

Notes
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.
<table>
<thead>
<tr>
<th>retries</th>
</tr>
</thead>
<tbody>
<tr>
<td>retries</td>
</tr>
</tbody>
</table>
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

The LDAP authentication timeout in seconds.

**Type**

Unsigned integer.

**Create**

The field is required on creation.

**Search**

The field is not available for search.

---

**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ea_mapping</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ldap_group_attribute</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ldap_group_authentication_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ldap_user_attribute</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>mode</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>recovery_interval</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>retries</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>search_scope</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>servers</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.119 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 assigns 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: lease/ZG5zLmJpbmRfY25h:12.0.10.1/external

Restrictions

The object does not support the following operations:

• Create (insert)
• Modify (update)
• Permissions
• Scheduling

The object cannot be managed on the 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.

address

address

The IPv4 Address or IPv6 Address of the lease.

Type

String.

Search

The field is available for search via

• ‘!=’ (negative search)
• ‘>=’ (greater than search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘~=' (regular expression)

Notes
address is part of the base object.
address cannot be updated.
address cannot be written.

**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**
billing_class cannot be updated.
billing_class cannot be written.

**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 not available for search.

Notes
binding_state cannot be updated.

binding_state cannot be written.

**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

• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
client_hostname cannot be updated.

client_hostname cannot be written.

**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
cltt cannot be updated.
cltt cannot be written.

<table>
<thead>
<tr>
<th>discovered_data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ends</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ends</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fingerprint</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>fingerprint</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Notes
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 for IPv4 leases only.

**Type**
String.

**Search**
The field is available for search via
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
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
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
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
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
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
ipv6_prefix_bits cannot be updated.
ipv6_prefix_bits cannot be written.
### 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**

- is_invalid_mac cannot be updated.
- is_invalid_mac cannot be written.

### 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**

- ms_ad_user_data cannot be updated.
- ms_ad_user_data cannot be written.

### network

The network, in “network/netmask” format, with which this lease is associated.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

- 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**

- network_view is part of the base object.
- 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**

- 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**

- never_starts cannot be updated.
- never_starts cannot be written.
**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**

- next_binding_state cannot be updated.
- next_binding_state cannot be written.

**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**
on_commit cannot be updated.
on_commit cannot be written.

<table>
<thead>
<tr>
<th><strong>on_expiry</strong></th>
</tr>
</thead>
</table>

**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**
on_expiry cannot be updated.
on_expiry cannot be written.

<table>
<thead>
<tr>
<th><strong>on_release</strong></th>
</tr>
</thead>
</table>

**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**
on_release cannot be updated.
on_release cannot be written.

<table>
<thead>
<tr>
<th><strong>option</strong></th>
</tr>
</thead>
</table>

**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**

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**

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 conversion 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:

<table>
<thead>
<tr>
<th>Number</th>
<th>Option field</th>
<th>Extracted remote ID field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lease01</td>
<td>agent.remote-id= “00152654358700” agent.circuit-id= “BX1-PORT-003”</td>
<td>“00152654358700”</td>
</tr>
<tr>
<td>Lease02</td>
<td>agent.remote-id=“Dhcp Relay 10” agent.circuit-id=“Port008”</td>
<td>“Dhcp Relay 10”</td>
</tr>
<tr>
<td>Lease03</td>
<td>agent.remote-id=‘00:01:02’</td>
<td>“00:01:02”</td>
</tr>
<tr>
<td>Lease04</td>
<td>agent.remote-id=0:1:2</td>
<td>0:1:2</td>
</tr>
<tr>
<td>Lease05</td>
<td>agent.remote-id=02:03</td>
<td>2:3</td>
</tr>
<tr>
<td>Lease06</td>
<td>agent.remote-id=10:20</td>
<td>10:20</td>
</tr>
<tr>
<td>Lease07</td>
<td>agent.circuit-id= “no-remote-id”</td>
<td></td>
</tr>
</tbody>
</table>

Expected results:

<table>
<thead>
<tr>
<th>Query</th>
<th>Returned leases</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>remote_id=01:02</td>
<td>None</td>
<td>EXACT query. No results are expected.</td>
</tr>
<tr>
<td>remote_id=“Dhcp Relay 10”</td>
<td>Lease02</td>
<td>EXACT query for an ASCII value.</td>
</tr>
<tr>
<td>remote_id=0:1:2</td>
<td>Lease04</td>
<td>EXACT query for a HEX value.</td>
</tr>
<tr>
<td>remote_id=00:01:02</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>remote_id=10</td>
<td>Lease02, Lease06</td>
<td>REGEX query.</td>
</tr>
<tr>
<td>remote_id=^[^“].*1</td>
<td>Lease01, Lease03, Lease02</td>
<td>REGEX query. Only ASCII values are expected due to the starting quote (“) in the search value.</td>
</tr>
<tr>
<td>remote_id=^[^“].*2</td>
<td>Lease04, Lease05, Lease06</td>
<td>REGEX query. Only HEX values are expected as the starting quote (“) is excluded from the search value.</td>
</tr>
<tr>
<td>remote_id=“”</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>remote_id=“”</td>
<td>Lease01, Lease02, Lease03, Lease04, Lease05, Lease06</td>
<td>REGEX query. This query is expected to match any lease that contain remote ID set to any value.</td>
</tr>
</tbody>
</table>

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  
• ‘=’ (exact equality)  
• ‘~=' (regular expression)

Notes  
remote_id cannot be updated.  
remote_id 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**
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**
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**
starts cannot be updated.
starts cannot be written.
**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**
tsfp cannot be updated.
tsfp cannot be written.

---

**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**
tstp cannot be updated.
tstp cannot be written.

---

**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**
uid cannot be updated.
uid cannot be written.
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

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

Notes

username cannot be updated.

username cannot be written.

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

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

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

**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

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

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

Notes
discovered_data.ap_ssid is a search-only field.

discovered_data.bridge_domain

Discovered bridge domain.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile

The Cisco ISE Endpoint Profile.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_endpoint_profile is a search-only field.
**discovered_data.cisco_ise_security_group**

The Cisco ISE security group name.

**Type**
String.

**Search**
The field is available for search via
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**Notes**
discovered_data.cisco_ise_security_group is a search-only field.

**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**

The Cisco ISE SSID.

**Type**
String.
Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

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

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

Notes
discovered_data.device_contact is a search-only field.
**discovered_data.device_location**

Location of device on which the IP address was discovered.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.device_location is a search-only field.

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

**Notes**
discovered_data.device_model is a search-only field.

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

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

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

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

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

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

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

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

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

Notes
discovered_data.discoverer is a search-only field.
discovered_data.endpoint_groups

A comma-separated list of discovered endpoint groups.

**Type**

String.

**Search**

The field is available for search via
- ’:=’ (case insensitive search)
- ’=’ (exact equality)
- ’~=' (regular expression)

**Notes**

discovered_data.endpoint_groups is a search-only field.

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
- ’!=’ (negative search)
- ’=’ (exact equality)
- ’<=’ (less than search)
- ’>=’ (greater than search)

**Notes**

discovered_data.first_discovered is a search-only field.

discovered_data.iprg_no

The port redundant group number.

**Type**

Unsigned integer.

**Search**

The field is available for search via
- ’!=’ (negative search)
- `=' (exact equality)
- `<=` (less than search)
- `=>` (greater than search)

**Notes**
discovered_data.iprg_no is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.iprg_state</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.iprg_state</strong></td>
</tr>
<tr>
<td>The status for the IP address within port redundant group.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- `=' (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.iprg_state is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.iprg_type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.iprg_type</strong></td>
</tr>
<tr>
<td>The port redundant group type.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- `=' (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.iprg_type is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.last_discovered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.last_discovered</strong></td>
</tr>
<tr>
<td>The date and time the IP address was last discovered in <em>Epoch seconds</em> format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
</tbody>
</table>
• ‘!=’ (negative search)
• ‘==’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
discovered_data.last_discovered is a search-only field.

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

Notes
discovered_data.mac_address is a search-only field.

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

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

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

**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  
- ‘:=’ (case insensitive search)  
- ‘=’ (exact equality)
discovered_data.network_component_description is a search-only field.

**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

- ‘=’ (exact equality)
- ‘~=’ (regular expression)

**Notes**

discovered_data.network_component_ip is a search-only field.

**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

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

**Notes**

discovered_data.network_component_location is a search-only field.

**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
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

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

**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

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

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

**Notes**
discovered_data.network_component_port_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_port_number</th>
</tr>
</thead>
</table>

**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
- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

**Notes**
discovered_data.network_component_port_number is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_type</th>
</tr>
</thead>
</table>

**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
Notes
discovered_data.network_component_type is a search-only field.

**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

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

Notes
discovered_data.network_component_vendor is a search-only field.

**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

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

Notes
discovered_data.open_ports is a search-only field.

**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
• ‘:=' (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

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

**Notes**
`discovered_data.port_type` is a search-only field.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.port_vlan_description</strong></td>
<td>The description of the VLAN of the switch port that is connected to the end device.</td>
</tr>
<tr>
<td><strong>discovered_data.port_vlan_name</strong></td>
<td>The name of the VLAN of the switch port.</td>
</tr>
<tr>
<td><strong>discovered_data.port_vlan_number</strong></td>
<td>The ID of the VLAN of the switch port.</td>
</tr>
</tbody>
</table>

**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

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

**Notes**

discovered_data.port_vlan_description is a search-only field.

**discovered_data.port_vlan_name**

The name of the VLAN of the switch port.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.port_vlan_name is a search-only field.

**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

- ‘!:=’ (negative search)
- ‘=’ (exact equality)
Notes
discovered_data.port_vlan_number is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.task_name</th>
</tr>
</thead>
</table>

discovered_data.task_name
The name of the discovery task.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=’ (regular expression)

Notes
discovered_data.task_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.tenant</th>
</tr>
</thead>
</table>

discovered_data.tenant
Discovered tenant.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=’ (regular expression)

Notes
discovered_data.tenant is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_adapter</th>
</tr>
</thead>
</table>

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

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

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

**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

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

**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

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

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

**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

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

**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
discovered_data.vmhost_ip_address is a search-only field.

**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

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

**Notes**

discovered_data.vmhost_mac_address is a search-only field.

**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

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

**Notes**

discovered_data.vmhost_name is a search-only field.

**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”.

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Type
String.

Search
The field is available for search via
   • ':=' (case insensitive search)
   • '=' (exact equality)
   • '~=' (regular expression)

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
   • '!=' (negative search)
   • '=' (exact equality)
   • '<=' (less than search)
   • '>=' (greater than search)

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 IP address type.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.vmi_ip_type is a search-only field.

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

Name of the virtual machine.

Type
String.

Search
The field is available for search via

- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
Notes
discovered_data.vmi_name is a search-only field.

**discovered_data.vmi_private_address**

Private IP address of the virtual machine.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.vmi_private_address is a search-only field.

**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**

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
• ‘!=' (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

**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
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

**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

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

**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
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

- ‘!="’ (negative search)
- ‘="’ (exact equality)
- ‘<="’ (less than search)
- ‘>="’ (greater than search)

**Notes**

discovered_data.vport_speed is a search-only field.

discovered_data.vswitch_available_ports_count

*discovered_data.vswitch_available_ports_count*

**Number 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

- ‘!="’ (negative search)
- ‘="’ (exact equality)
- ‘<="’ (less than search)
- ‘>="’ (greater than search)

**Notes**

discovered_data.vswitch_available_ports_count is a search-only field.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_id</td>
<td>ID of the virtual switch.</td>
<td>String.</td>
<td>• ‘=’ (exact equality)</td>
<td>discovered_data.vswitch_id is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Indicates the virtual switch has IPV6 enabled.</td>
<td>Bool.</td>
<td>• ‘=’ (exact equality)</td>
<td>discovered_data.vswitch_ipv6_enabled is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>Name of the virtual switch.</td>
<td>String.</td>
<td>• ‘:=’ (case insensitive search) • ‘=’ (exact equality) • ‘~=’ (regular expression)</td>
<td>discovered_data.vswitch_name is a search-only field.</td>
</tr>
</tbody>
</table>
**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

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

**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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)
discovered_data.vswitch_segment_port_group is a search-only field.

### 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

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

Notes

discovered_data.vswitch_segment_type is a search-only field.

### 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

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

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

### 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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes
discovered_data.vswitch_tep_ip is a search-only field.

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<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>Muticast address of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
</tr>
<tr>
<td>Type</td>
<td>String</td>
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<tr>
<td>Search</td>
<td>The field is available for search via</td>
</tr>
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<td></td>
<td>• <code>:=</code> (case insensitive search)</td>
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<tr>
<td></td>
<td>• <code>=</code> (exact equality)</td>
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<td>• <code>~=</code> (regular expression)</td>
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<td>Notes</td>
<td>discovered_data.vswitch_tep_multicast is a search-only field.</td>
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<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
</tr>
<tr>
<td>Type</td>
<td>String</td>
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<tr>
<td>Search</td>
<td>The field is available for search via</td>
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<td>• <code>:=</code> (case insensitive search)</td>
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<td>discovered_data.vswitch_tep_port_group is a search-only field.</td>
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<table>
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<tr>
<th>Field</th>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Type of virtual tunnel endpoint (VTEP) in the virtual switch.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**
discovered_data.vswitch_tep_type is a search-only field.

---

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

**Notes**
discovered_data.vswitch_tep_vlan is a search-only field.

---

**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**

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<th>Field</th>
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<th>R/O</th>
<th>Base</th>
<th>Search</th>
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<td>binding_state</td>
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<td>N</td>
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**Search-only Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>(= \sim)</td>
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<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>(= \sim)</td>
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<td>discovered_data.ap_ssid</td>
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<td>discovered_data.bridge_domain</td>
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<td>Field</td>
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<td>discovered_data.cisco_ise_security_group</td>
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<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.endpoint_groups</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.iprg_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
<td>Timestamp</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.mgmt_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.netbios_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_ip</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_location</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_model</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_number</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.network_component_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_vendor</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.open_ports</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.os</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_duplex</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_link_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_number</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.task_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.tenant</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_adapter</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_cluster</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_datacenter</td>
<td>String</td>
<td>:= ~</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.20 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.v_entity_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.v_host</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.v_switch</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vlan_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vmi_tenant_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

3.120 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: license:gridwide/b25LmxpY2Vuc2VfcG9vbCRkaG1wLjEw:SEC_ECO/10

**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 the 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.

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**

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**
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**
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**
limit cannot be updated.
limit cannot be written.
**limit_context**

The license limit context.

**Type**

String.

**Valid values are:**

- LEASES
- MODEL
- NONE
- TIER

**Search**

The field is not available for search.

**Notes**

limit_context cannot be updated.

limit_context cannot be written.

---

**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
- FREQ_CONTROL
• GRID
• GRID_MAINTENANCE
• IPAM
• IPAM_FREEWARE
• LDAP
• LOAD_BALANCER
• MGM
• MSMGMT
• NIOS
• NIOS_MAINTENANCE
• NTP
• OEM
• QRD
• REPORTING
• REPORTING_SUB
• RPZ
• SECURITY_ECO SYSTEM
• SW_TP
• TAE
• TFTP
• THREAT_ANALYTICS
• TP
• TP_SUB
• UNBOUND
• VNIOS

Search
The field is available for search via
• ‘=’ (exact equality)

Notes

type is part of the base object.
type cannot be updated.
type cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>expiration_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>expiry_date</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>key</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit_context</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.121 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/ZG5zLm5ldHvcmtfdmlldyQxMTk: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 the 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*
comment is part of the base object.
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*
disabled is part of the base object.
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*
name is part of the base object.
name cannot be updated.
name cannot be written.
3.122 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: macfilteraddress/ZG5OjQ0OjU1OjY2:11%3A22%3A33%3A44%3A55%3A66/macf1

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter</td>
<td></td>
</tr>
<tr>
<td>mac</td>
<td></td>
</tr>
</tbody>
</table>

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
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

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

**Notes**
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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**

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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**

filter is part of the base object.
**fingerprint**

**fingerprint**
DHCP fingerprint for the address.
**Type**
String.
**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
**Notes**
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
**Notes**
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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes

guest_custom_field3 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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes

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

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

Notes
guest_custom_field4 is part of the base object.

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

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

Notes
guest_email is part of the base object.

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

- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)
Notes
guest_first_name is part of the base object.

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

Notes
guest_last_name is part of the base object.

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

Notes
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

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

**Notes**

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**

is_registered_user is part of the base object.

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

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

**Notes**

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**

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

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

**Notes**

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

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

**Notes**

username is part of the base object.

---

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>expiration_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>filter</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>fingerprint</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_custom_field1</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_custom_field2</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_custom_field3</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_custom_field4</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_email</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_first_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_last_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_middle_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>guest_phone</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>is_registered_user</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>mac</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>neverexpires</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>reserved_for_infoblox</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>username</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>
3.123 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: mastergrid/ZG5zLm5ldHdvcmtfdmlldyQxMTk:10.0.0.1

**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 the 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, enable, port.

**address**

The domain name or IP address for the Master Grid.

Type

String.

Create

The default value is undefined.

Search

The field is available for search via

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

Notes
address is part of the base object.

### connection_disabled

determination_disabled
Determines if the sub-grid is currently disabled.

Type
Bool.

Search
The field is not available for search.

Notes
cannection_disabled cannot be updated.
cannection_disabled cannot be written.

### connection_timestamp

connection_timestamp
The timestamp that indicates when the connection to the Master Grid was established.

Type
Timestamp.

Search
The field is not available for search.

Notes
cannection_timestamp cannot be updated.
cannection_timestamp cannot be written.

### detached

detached
The detached flag for the Master Grid.

Type
Bool.

Search
The field is not available for search.

Notes
detached cannot be updated.
detached cannot be written.

### enable

**enable**

Determines if the Master Grid is enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**Notes**

enable is part of the base object.

### joined

**joined**

The flag shows if the Grid has joined to the Master Grid.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

joined cannot be updated.

joined cannot be written.

### last_event

**last_event**

The Master Grid’s last event.

**Type**

String.

**Valid values are:**

- ATTACH
- DETACH
- DISABLE
- EVICT
- MESSAGE
**last_event_details**

The details of the Master Grid’s last event.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
last_event_details cannot be updated.
last_event_details cannot be written.

**last_sync_timestamp**

The timestamp or the last synchronization operation with the Master Grid.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_sync_timestamp cannot be updated.
last_sync_timestamp cannot be written.

**port**

The Master Grid port to which the Grid connects.

**Type**
Unsigned integer.

**Create**
The default value is **1194**.

**Search**
The field is available for search via

- ‘=’ (exact equality)

**Notes**
port is part of the base object.

### status

**status**
The Master Grid’s status.

**Type**
String.

**Valid values are:**
- FAILED
- INACTIVE
- WARNING
- WORKING

**Search**
The field is not available for search.

**Notes**
status cannot be updated.
status cannot be written.

### use_mgmt_port

**use_mgmt_port**
The flag shows if mgmt port was used to join the grid.

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
use_mgmt_port cannot be updated.
use_mgmt_port cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>connection_disabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>connection_timestamp</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>detached</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>joined</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_event</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_event_details</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_sync_timestamp</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_mgmt_port</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.124 member : Member object.

This object represents the Infoblox Grid Member.

#### 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: member/ZG5zLm5ldHdvcmtdmlldyQxMTk:member.com

#### 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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>host_name</td>
<td></td>
</tr>
<tr>
<td>ipv6_setting</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>vip_setting</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>
### active_position

**active_position**
The active server of a Grid member.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
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:

```plaintext
eempty
```

**Search**
The field is not available for search.

### 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:

```plaintext
eempty
```

**Search**
The field is not available for search.
**comment**

A descriptive comment of the Grid member.

**Type**

String.

**Create**

The default value is *empty*.

**Search**

The field is available for search via

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

---

**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**

config_addr_type is part of the base object.

---

**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

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).*

dns Resolver_setting

The email setting for member.

Type
A/An *The email settings for the Grid member struct.*

Create
The default value is:

```
{ 'enabled': False, 'relay_enabled': False}
```

Search
The field is not available for search.

Notes
e-mail_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**

e external_syslog_backup_servers is associated with the field *use_external_syslog_backup_servers* (see *use flag*).
**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*).

**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

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

**Notes**

`host_name` is part of the base object.

**ipv6_setting**

IPV6 setting for member.

**Type**

A/An *IPv6 Settings* struct.

**Create**

At least one of `vip_setting` and `ipv6_setting` is required.
**ipv6_static_routes**

List of IPv6 static routes.

**Type**

A/An *IPv6 Settings* struct array.

**Create**

The default value is: `empty`

**Search**

The field is not available for search.

**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**

`is_dscp_capable` cannot be updated.

`is_dscp_capable` cannot be written.

**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.

**lcd_input**

*lcd_input*
Determines if the Liquid Crystal Display (LCD) input buttons on the front panel of the appliance are enabled or not.

**Type**
Bool.

**Create**
The default value is *True*.

**Search**
The field is not available for search.

**Notes**
lcd_input is associated with the field *use_lcd_input* (see *use flag*).

**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

The list of LOM users.

**Type**
The *Lights Out Management (LOM) user* struct array.

**Create**
The default value is: empty

**Search**
The field is not available for search.

### 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

Configure communication type for various services.

**Type**
The *Member Service Communication* struct array.

**Create**
The default value is *undefined*.

**Search**
The field is not available for search.
**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**

Extensible attributes Topology database build time.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**

*mmdb_ea_build_time* cannot be updated.

*mmdb_ea_build_time* cannot be written.

---

**mmdb_geoip_build_time**

GeoIP Topology database build time.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**

*mmdb_geoip_build_time* cannot be updated.

*mmdb_geoip_build_time* cannot be written.
**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**

The node information list with detailed status report on the operations of the Grid Member.

**Type**
A/An *Node Info* struct array.

**Create**
The default value is:

```python
[{}]
```

**Search**
The field is not available for search.

**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:

```python

{ 'enable_external_ntp_servers': False,
  'enable_ntp': False,
  'exclude_grid_master_ntp_server': False,
  'ntp_acl': { 'ac_list': [], 'acl_type': 'NONE', 'service': 'TIME'},
  'ntp_keys': [],
  'ntp_kod': False,
  'ntp_servers': [],
  'use_ntp_acl': False,
  'use_ntp_keys': False,
  'use_ntp_kod': False,
  'use_ntp_servers': False}
```
**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**

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**

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
platform is part of the base object.

<table>
<thead>
<tr>
<th>pre_provisioning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pre_provisioning</strong></td>
</tr>
<tr>
<td>Pre-provisioning information.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>A/An <em>Pre-provisioning Settings</em> struct.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>preserve_if_owns_delegation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>preserve_if_owns_delegation</strong></td>
</tr>
<tr>
<td>Set this flag to “true” to prevent the deletion of the member if any delegated object remains attached to it.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- ‘=’ (exact equality)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>remote_console_access_enable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>remote_console_access_enable</strong></td>
</tr>
<tr>
<td>If set to True, superuser admins can access the Infoblox CLI from a remote location using an SSH (Secure Shell) v2 client.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
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).

<table>
<thead>
<tr>
<th>router_id</th>
</tr>
</thead>
</table>

**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)

<table>
<thead>
<tr>
<th>service_status</th>
</tr>
</thead>
</table>

**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**
service_status cannot be updated.
service_status cannot be written.

<table>
<thead>
<tr>
<th>service_type_configuration</th>
</tr>
</thead>
</table>

**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
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**
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**

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**

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**

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 “(UTC - 5:00) Eastern Time (US and Canada)”.

**Type**

String.

**Create**

The default value is *(UTC) Coordinated Universal Time*.

**Search**

The field is not available for search.

**Notes**

time_zone is associated with the field use_time_zone (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_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 flag for: dscp

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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 flag for: enable_lom

**Type**

Bool.
<table>
<thead>
<tr>
<th>Field</th>
<th>Use flag for:</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_member_redirect</td>
<td>enable_member_redirect</td>
<td>Bool.</td>
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<td>use_external_syslog_backup_servers</td>
<td>external_syslog_backup_servers</td>
<td>Bool.</td>
</tr>
<tr>
<td>use_lcd_input</td>
<td>lcd_input</td>
<td>Bool.</td>
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</table>

Create
The default value is *False*.

Search
The field is not available for search.
<table>
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<th>Description</th>
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<td>Use flag for: remote_console_access_enable</td>
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<tr>
<td>Create</td>
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<td>Search</td>
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<td>Use flag for: snmp_setting</td>
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<td>Use flag for: support_access_enable</td>
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<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
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<td>Use flag for: external_syslog_server_enable, syslog_servers, syslog_proxy_setting, syslog_size</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
</tbody>
</table>
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_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.

**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/Stop 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** (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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
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Continued on next page
Table 3.21 – continued from previous page

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<tr>
<td>use_support_access_enable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_syslog_proxy_setting</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_threshold_traps</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_time_zone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_trap_notifications</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_v4_vrrp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
### Table 3.21 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>vip_setting</td>
<td>struct</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>vpn_mtu</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

#### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4_address</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>ipv6_address</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

#### 3.125 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: member:dhcpproperties/ZG5zLm5ldHvcmtfdmlldyQxMTk:member.com

#### 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**.
**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

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

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

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*. 
**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**

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**

Determines if support for option 81 is enabled or not.

**Type**
Bool.

**Create**
The default value is False.
**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

dhcp_utilization cannot be updated.
dhcp_utilization cannot be written.

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

dhcp_utilization_status cannot be updated.
dhcp_utilization_status cannot be written.

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 by the 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**  
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).

<table>
<thead>
<tr>
<th>enable_dhcpv6_service</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>enable_email_warnings</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>enable_fingerprint</th>
</tr>
</thead>
</table>

**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.
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.

(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

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

**Notes**

host_name is part of the base object.

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*. 

---

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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.

Notes
ignore_id is associated with the field useignore dhcp-option-list-request (see use flag).

ignore_mac_addresses

A list of MAC addresses the appliance will ignore.

Type
String array.

Create
The default value is empty.

Notes
ignore_mac_addresses is associated with the field use.ignore_mac_addresses (see use flag).
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**

The *IPv4 Address* of the Grid member.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

*ipv4addr* is part of the base object.

*ipv4addr* cannot be updated.

*ipv4addr* cannot be written.

---

**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**

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**

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**

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 by the 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*.
**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**

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**

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
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
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

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

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

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**

Determine 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

- '=' (exact equality)
- '=~' (regular expression)
Notes
ipv6addr is part of the base object.
ipv6addr cannot be updated.
ipv6addr cannot be written.

<table>
<thead>
<tr>
<th>kdc_server</th>
</tr>
</thead>
</table>

dc_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).

<table>
<thead>
<tr>
<th>lease_per_client_settings</th>
</tr>
</thead>
</table>

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_MACHING_ID”.

Type
String.

Valid values are:

- NEVER_RELEASE
- ONELEASE_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).
<table>
<thead>
<tr>
<th><strong>lease_scavenge_time</strong></th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th><strong>log_lease_events</strong></th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th><strong>logic_filter_rules</strong></th>
</tr>
</thead>
</table>

**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:
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).
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)
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

textserver
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

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).

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).
**recycleleases**

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**

recycleleases is associated with the field *use_recycleleases* (see *use flag*).

**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**

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**

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**
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 flag for:** bootserver

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### 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 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 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 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 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 flag for: deny_bootp

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.
<table>
<thead>
<tr>
<th><strong>use_dns_update_style</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_dns_update_style</strong></td>
<td>Use flag for: dns_update_style</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_email_list</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_email_list</strong></td>
<td>Use flag for: email_list</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_enable_ddns</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_ddns</strong></td>
<td>Use flag for: enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_enable_dhcp_thresholds</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_dhcp_thresholds</strong></td>
<td>Use flag for: enable_dhcp_thresholds , high_water_mark, high_water_mark_reset, low_water_mark, low_water_mark_reset</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_fingerprint</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_fingerprint</td>
</tr>
<tr>
<td>Use flag for: enable_fingerprint</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_gss_tsig</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_gss_tsig</td>
</tr>
<tr>
<td>Use flag for: kdc_server , enable_gss_tsig</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_hostname_rewrite</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_hostname_rewrite</td>
</tr>
<tr>
<td>Use flag for: enable_hostname_rewrite , hostname_rewrite_policy</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_leasequery</td>
<td>Use flag for: enable_leasequery</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>use_enable_one_lease_per_client</td>
<td>Use flag for: enable_one_lease_per_client</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>use_gss_tsig_keys</td>
<td>Use flag for: gss_tsig_keys</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
<td>Use flag for: ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ignore_id</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ignore_id</strong></td>
</tr>
<tr>
<td>Use flag for: <code>ignore_id</code></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><code>Bool</code></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
| The default value is *False*.
| **Search** |
| The field is not available for search.

<table>
<thead>
<tr>
<th>use_immediate_fa_configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_immediate_fa_configuration</strong></td>
</tr>
<tr>
<td>Use flag for: <code>immediate_fa_configuration</code></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><code>Bool</code></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
| The default value is *False*.
| **Search** |
| The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipv6_ddns_domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ipv6_ddns_domainname</strong></td>
</tr>
<tr>
<td>Use flag for: <code>ipv6_ddns_domainname</code></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><code>Bool</code></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
| The default value is *False*.
| **Search** |
| The field is not available for search. |
### 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 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 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 flag for: ipv6_dns_update_style

**Type**
- Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipv6_domain_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ipv6_domain_name</td>
</tr>
<tr>
<td>Use flag for: ipv6_domain_name</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipv6_domain_name_servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ipv6_domain_name_servers</td>
</tr>
<tr>
<td>Use flag for: ipv6_domain_name_servers</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipv6_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ipv6_enable_ddns</td>
</tr>
<tr>
<td>Use flag for: ipv6_enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is False.

Search
The field is not available for search.
<table>
<thead>
<tr>
<th>use_ipv6_enable_gss_tsig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use flag for: ipv6_kdc_server, ipv6_enable_gss_tsig</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_ipv6_enable_retry_updates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use flag for: ipv6_enable_retry_updates, ipv6_retry_updates_interval</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
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<table>
<thead>
<tr>
<th>use_ipv6_generate_hostname</th>
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<tbody>
<tr>
<td>Use flag for: ipv6_generate_hostname</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>use_ipv6_gss_tsig_keys</th>
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<tbody>
<tr>
<td>Use flag for: ipv6_gss_tsig_keys</td>
</tr>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>
**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 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 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 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 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 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 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 flag for: microsoft_code_page

Type
Bool.

Create
The default value is False.

Search
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<td><strong>use_nextserver</strong></td>
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<tr>
<td>Use flag for: <code>nextserver</code></td>
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<tr>
<td>Bool.</td>
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<tr>
<td><strong>Create</strong></td>
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<td>Use flag for: <code>options</code></td>
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<tr>
<td><strong>Create</strong></td>
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<td>Use flag for: <code>ping_timeout</code></td>
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<td><strong>Type</strong></td>
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<td>Bool.</td>
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Create
The default value is False.

Search
The field is not available for search.

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<tr>
<th>use_preferred_lifetime</th>
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use_preferred_lifetime
Use flag for: preferred_lifetime

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

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<tr>
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use_pxelease_time
Use flag for: pxe_lease_time

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_recycleleases</th>
</tr>
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</table>

use_recycleleases
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 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 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 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 flag for: `valid_lifetime`

**Type**
Bool.
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>valid_lifetime</th>
</tr>
</thead>
</table>

**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**

<table>
<thead>
<tr>
<th>clear_nac_auth_cache</th>
</tr>
</thead>
</table>

**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

<table>
<thead>
<tr>
<th>purge_ifmap_data</th>
</tr>
</thead>
</table>

**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

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<thead>
<tr>
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<th>Base</th>
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Continued on next page
Table 3.22 – continued from previous page

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<th>Base</th>
<th>Search</th>
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<td>N</td>
<td>N/A</td>
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</tbody>
</table>

3.126 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.

**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: member:dns/ZG5zLm5ldHvcmtfdmlldyQxMTk:Infoblox

**Restrictions**

The object does not support the following operations:

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

The object cannot be managed on the 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*.

**additional_ip_list**

The list of additional IP addresses on which DNS is enabled for a Grid member.

**Type**

String array.

**Create**

The default value is *empty*. 
allow_gss_tsig_zone_updates

Determine 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

Determine 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

Determine 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.
allow_recursive_query is associated with the field `use_recursive_query_setting` (see `use flag`).

<table>
<thead>
<tr>
<th>allow_transfer</th>
</tr>
</thead>
</table>

**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:

```excel
empty
```

**Search**

The field is not available for search.

**Notes**

allow_transfer is associated with the field `use_allow_transfer` (see `use flag`).

<table>
<thead>
<tr>
<th>allow_update</th>
</tr>
</thead>
</table>

**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:

```excel
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

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.

attack_mitigation

Mitigation settings for DNS attacks.

**Type**
A/An *DNS Attack Mitigation object* struct.

**Create**
The default value is:

```json
{
    '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,
    'mitigate_nxdomain_lru': False
}
```

**Search**
The field is not available for search.

**Notes**

attack_mitigation is associated with the field *use_attack_mitigation* (see *use flag*).
**auto_blackhole**

The auto blackhole settings.

**Type**

A/An *DNS Auto Blackhole settings* struct.

**Create**

The default value is:

```python
{
    '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**

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**

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**

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**

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**

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).

<table>
<thead>
<tr>
<th>bind_hostname_directive_fqdn</th>
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</thead>
</table>

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.

<table>
<thead>
<tr>
<th>blackhole_list</th>
</tr>
</thead>
</table>

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).
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
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<tr>
<td><strong>blacklist_action</strong></td>
<td>The action to perform when a domain name matches the pattern defined in a rule that is specified by the blacklist_ruleset method.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
<td></td>
</tr>
<tr>
<td>• REDIRECT</td>
<td></td>
</tr>
<tr>
<td>• REFUSE</td>
<td></td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>REDIRECT</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>blacklist_action is associated with the field <em>use_blacklist</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>blacklist_log_query</strong></td>
<td>Determines if blacklist redirection queries are logged or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>blacklist_log_query is associated with the field <em>use_blacklist</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>blacklist_redirect_addresses</strong></td>
<td>The IP addresses the appliance includes in the response it sends in place of a blacklisted IP address.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String array.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td></td>
</tr>
</tbody>
</table>
The field is not available for search.

Notes
blacklist_redirect_addresses is associated with the field use_blacklist (see use flag).

<table>
<thead>
<tr>
<th>blacklist_redirect_ttl</th>
</tr>
</thead>
</table>
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).

<table>
<thead>
<tr>
<th>blacklist_rulesets</th>
</tr>
</thead>
</table>
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).

<table>
<thead>
<tr>
<th>check_names_for_ddns_and_zone_transfer</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>copy_xfer_to_notify</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>custom_root_name_servers</th>
</tr>
</thead>
</table>

**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:
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
Bol.

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
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_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**

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**

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**

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**

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**

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**

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**

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).

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dnssec_validation_enabled</td>
<td>Determines if the DNS security validation is enabled or not.</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is True.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>dnssec_validation_enabled is associated with the field use_dnssec (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>domains_to_capture_dns_queries</td>
<td>The list of domains for DNS query capture.</td>
</tr>
<tr>
<td>Type</td>
<td>String array.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dtc_edns_prefer_client_subnet</td>
<td>Determines whether to prefer the client address from the edns-client-subnet option for DTC or not.</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td></td>
</tr>
</tbody>
</table>
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

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

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.
**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**

Determine 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**

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_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*).
<table>
<thead>
<tr>
<th>enable_fixed_rrset_order_fqdns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_fixed_rrset_order_fqdns</strong></td>
</tr>
<tr>
<td>Determines if the fixed RRset order FQDN is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>enable_fixed_rrset_order_fqdns is associated with the field <em>use_fixed_rrset_order_fqdns</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_ftc</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_ftc</strong></td>
</tr>
<tr>
<td>Determines whether Fault Tolerant Caching (FTC) is enabled.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>enable_ftc is associated with the field <em>use_ftc</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_gss_tsig</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_gss_tsig</strong></td>
</tr>
<tr>
<td>Determines whether the appliance is enabled to receive GSS-TSIG authenticated updates from DHCP clients.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>enable_gss_tsig is associated with the field <em>use_enable_gss_tsig</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>
**enable_notify_source_port**

Determine 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**

Determine 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**

Determine 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

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

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

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:
{}

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**

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**

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**

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

fte_expired_record_ttl is associated with the field use_ftc (see use flag).

<table>
<thead>
<tr>
<th>glue_record_addresses</th>
</tr>
</thead>
</table>

`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.

<table>
<thead>
<tr>
<th>gss_tsig_keys</th>
</tr>
</thead>
</table>

`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).

<table>
<thead>
<tr>
<th>host_name</th>
</tr>
</thead>
</table>

`host_name`  
The host name of the Grid member.  

Type  
String.  
Search  
The field is available for search via  
- ‘=’ (exact equality)  
- ‘~=' (regular expression)
Notes
host_name is part of the base object.
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
  • ‘=’ (exact equality)
  • ‘~=’ (regular expression)
Notes
ipv4addr is part of the base object.
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
- '=' (exact equality)
- '~=.' (regular expression)

Notes
ipv6addr is part of the base object.
ipv6addr cannot be updated.
ipv6addr cannot be written.

<table>
<thead>
<tr>
<th>is_unbound_capable</th>
</tr>
</thead>
</table>

**is_unbound_capable**

The flag that indicates whether member DNS supports Unbound as the recursive resolver or not.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

is_unbound_capable cannot be updated.
is_unbound_capable cannot be written.

<table>
<thead>
<tr>
<th>lame_ttl</th>
</tr>
</thead>
</table>

**lame_ttl**

The number of seconds to cache lame delegations or lame servers.

**Type**

Unsigned integer.

**Create**

The default value is 600.

**Search**

The field is not available for search.

**Notes**

lame_ttl is associated with the field use_lame_ttl (see use flag).

<table>
<thead>
<tr>
<th>logging_categories</th>
</tr>
</thead>
</table>

**logging_categories**

The logging categories for this DNS member.

**Type**

A/An Grid logging setting information struct.
Create

The default value is:

```python
    { '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': True,
      '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**

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**

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_cache_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_cache_ttl is associated with the field use_max_cache_ttl (see use flag).

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).
<table>
<thead>
<tr>
<th>nxdomain_redirect</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>nxdomain_redirect_addresses</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>nxdomain_redirect_addresses_v6</th>
</tr>
</thead>
</table>

**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

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**

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**

A limit on the number of concurrent recursive clients.

**Type**

Unsigned integer.

**Create**

The default value is 1000.

**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**

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).

<table>
<thead>
<tr>
<th>recursive_resolver</th>
</tr>
</thead>
<tbody>
<tr>
<td>recursive_resolver</td>
</tr>
<tr>
<td>The recursive resolver for member DNS.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• BIND</td>
</tr>
<tr>
<td>• UNBOUND</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is BIND.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>resolver_query_timeout</th>
</tr>
</thead>
<tbody>
<tr>
<td>resolver_query_timeout</td>
</tr>
<tr>
<td>The recursive query timeout for the member. The value must be 0 or between 10 and 30.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is 0.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>resolver_query_timeout is associated with the field use_resolver_query_timeout (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>response_rate_limiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>response_rate_limiting</td>
</tr>
<tr>
<td>The response rate limiting settings for the member.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>A/An DNS Response Rate Limiting struct.</td>
</tr>
<tr>
<td>Create</td>
</tr>
</tbody>
</table>
The default value is:

```python
{'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**

Determine 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**

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).
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpz_drop_ip_rule_enabled</td>
<td>Enables the appliance to ignore RPZ-IP triggers with prefix lengths less than the specified minimum prefix length.</td>
</tr>
</tbody>
</table>
|                                               | **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       | 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       | 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**  

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rpz_drop_ip_rule_min_prefix_length_ipv6 is associated with the field use_rpz_drop_ip_rule (see use flag).

<table>
<thead>
<tr>
<th>rpz_qname_wait_recursive</th>
</tr>
</thead>
</table>

rpz_qname_wait_recursive
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_recursive is associated with the field use_rpz_qname_wait_recursive (see use flag).

<table>
<thead>
<tr>
<th>serial_query_rate</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>server_id_directive</th>
</tr>
</thead>
</table>

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

The value of the user-defined hostname directive for BIND and UNBOUND 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

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

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:
**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**

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).

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`).

### unbound_logging_level

**unbound_logging_level**
Logging level for the Unbound recursive resolver.

**Type**
String.
Valid values are:

- ALGORITHM
- CACHE_MISSES
- DETAILED_OPERATIONS
- ERRORS_ONLY
- OPERATIONS
- QUERY

Create
The default value is OPERATIONS.

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 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 flag for: bind_hostname_directive

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

---

**use_blackhole**

Use flag for: enable_blackhole

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>use_blacklist</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_capture_dns_queries_on_all_domains</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_copy_xfer_to_notify</th>
</tr>
</thead>
</table>

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_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_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 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 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 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 flag for: filter_aaaa, filter_aaaa_list

**Type**

Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_fixed_rrset_order_fqdns</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_forward_updates</th>
</tr>
</thead>
</table>

use_forward_updates
Use flag for: forward_updates

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_forwarders</th>
</tr>
</thead>
</table>

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 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 flag for:** gss_tsig_keys

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### use_lame_ttl

**Use flag for:** lame_ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### 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.

<table>
<thead>
<tr>
<th>use_lan2_port</th>
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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.

<table>
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<tr>
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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.

<table>
<thead>
<tr>
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</table>

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_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 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 flag for: max_ncache_ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**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_mgmnt_port**

*use_mgmnt_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 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 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 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 flag for:** resolver_query_timeout

**Type**

Bool.
<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>use_response_rate_limiting</td>
<td>Use flag for: response_rate_limiting</td>
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<tr>
<td></td>
<td>Type</td>
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<tr>
<td>Create</td>
<td>The default value is False.</td>
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<td>Search</td>
<td>The field is not available for search.</td>
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<tr>
<td>use_root_name_server</td>
<td>Use flag for: root_name_server_type , custom_root_name_servers</td>
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<tr>
<td></td>
<td>Type</td>
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<td>Create</td>
<td>The default value is False.</td>
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<td>Search</td>
<td>The field is not available for search.</td>
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<tr>
<td>use_rpz_disable_nsdname_nsip</td>
<td>Use flag for: rpz_disable_nsdname_nsip</td>
</tr>
<tr>
<td></td>
<td>Type</td>
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<tr>
<td>Create</td>
<td>The default value is False.</td>
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<tr>
<td>Search</td>
<td>The field is not available for search.</td>
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</table>
### 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 flag for: sortlist

Type
Bool.
Create
The default value is False.
Search
The field is not available for search.

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 flag for: syslog_facility

Type
Bool.
Create
The default value is False.
Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_transfers_in</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_transfers_in</strong></td>
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<tr>
<td>Use flag for: transfers_in</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
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<td><strong>Search</strong></td>
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<table>
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<tr>
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<td><strong>Type</strong></td>
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<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
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<td><strong>Search</strong></td>
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<table>
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<th>use_transfers_per_ns</th>
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<tr>
<td>Use flag for: transfers_per_ns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</tbody>
</table>
**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 flag for: transfer_excluded_servers, transfer_format

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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</tr>
<tr>
<td>use_serial_query_rate</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_server_id_directive</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_sortlist</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_source_ports</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_syslog_facility</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_transfers_in</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_transfers_out</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_transfers_per_ns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_update_setting</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_zone_transfer_format</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
### 3.127 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) which 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:** member:filedistribution/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:hostname.com

#### Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- CSV export

The object cannot be managed on the 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**.

**allow_uploads**

Determines whether the uploads to Grid member are allowed.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.
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

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

**Notes**
comment cannot be updated.
comment cannot be written.

**enable_ftp**

**enable_ftp**
Determines whether the FTP protocol 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**

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**

Determines whether the HTTP protocol is enabled for file distribution.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**enable_http_acl**

Determines whether the HTTP protocol access control (AC) settings are enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**enable_tftp**

Determines whether the TFTP protocol is enabled for file distribution.

**Type**

Bool.
Create
The default value is False.

Search
The field is not available for search.

**ftp_acls**

The access control (AC) settings for the FTP protocol.

**Type**
A/An `Address ac` struct array.

**Create**
The default value is:

```plaintext
eempty
```

**Search**
The field is not available for search.

**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**

The FTP protocol status.

**Type**
String.

**Valid values are:**

- FAILED
- INACTIVE
- UNKNOWN
• WARNING
• WORKING

**Search**
The field is not available for search.

**Notes**
ftp_status cannot be updated.
ftp_status cannot be written.

<table>
<thead>
<tr>
<th>host_name</th>
</tr>
</thead>
</table>

**host_name**
The Grid member host name.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)

**Notes**
host_name is part of the base object.
host_name cannot be updated.
host_name cannot be written.

<table>
<thead>
<tr>
<th>http_acls</th>
</tr>
</thead>
</table>

**http_acls**
The 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
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
- ‘=’ (exact equality)
- ‘~’ (regular expression)

Notes
ipv4_address is part of the base object.
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
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
ipv6_address is part of the base object.
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**
status is part of the base object.
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**

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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_uploads</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>enable_ftp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ftp_filelist</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ftpPassive</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_http</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_http_acl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_tftp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ftp_acls</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ftp_port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ftp_status</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>host_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>http_acls</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>http_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv4_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ipv6_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>tftp_acls</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tftp_port</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>tftp_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_allow_uploads</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.128 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: member:license/b25ILnByb2R1Y3RfbGljZW5zZSQwLGRoY3AsMA:DHCP/Static
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 the 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.

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

duration cannot be updated.
duration cannot be written.

duration cannot be written.
The expiration timestamp of the license.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
expiry_date cannot be updated.
expiry_date cannot be written.

<table>
<thead>
<tr>
<th>hwid</th>
</tr>
</thead>
<tbody>
<tr>
<td>hwid</td>
</tr>
</tbody>
</table>
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**
hwid cannot be updated.
hwid cannot be written.

<table>
<thead>
<tr>
<th>key</th>
</tr>
</thead>
<tbody>
<tr>
<td>key</td>
</tr>
</tbody>
</table>
License string.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
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
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
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
limit_context cannot be updated.
limit_context cannot be written.

type
The license type.

Type
String.

Valid values are:
• ANYCAST
• CLOUD
• CLOUD_API
• DCA
• DDI_TRIAL
• DHCP
• DISCOVERY
• DNS
• DNSQRSTW
• DNS_CACHE_ACCEL
• DTC
• FIREEYE
• FLEX_GRID_ACTIVATION
• 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_ANALYTICS
- TP
- TP_SUB
- UNBOUND
- VNIOS

**Search**

The field is available for search via

- ‘=’ (exact equality)

**Notes**

- type is part of the base object.
- type cannot be updated.
- type cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>expiration_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>expiry_date</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>hwid</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>key</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>kind</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>limit_context</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>
3.129 member:threatanalytics: Grid member threat analytics object.

To mitigate DNS data exfiltration, Infoblox DNS threat analytics employs analytics algorithms to detect DNS tunneling traffic by analyzing incoming DNS queries and responses.

The Grid member threat analytics object contains facilities for starting and stopping the DNS threat analytics routines as well as for monitoring the current status of the threat analytics service.

Object Reference

References to member:threatanalytics are object references.
The name part of the Grid member threat analytics object reference has the following components:

• The Grid member host name

Example: member:threatanalytics/ZG5zLm9wdGlvb19kZWZpbml0aW9uIGluZm8uLmZhbmHNIjI1Mg:hostname.com

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 the 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.

comment

comment

The Grid member descriptive comment.

Type

String.

Search

The field is available for search via

• ‘:=’ (case insensitive search)
• ‘:=’ (exact equality)
• ‘~:=’ (regular expression)
Notes
cannot be updated.
cannot be written.

**enable_service**

Determines whether the threat analytics service is enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**host_name**

The Grid member host name.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

host_name is part of the base object.

host_name cannot be updated.

host_name cannot be written.

**ipv4_address**

The *IPv4 Address* address of the Grid member.

**Type**

String.

**Search**

The field is available for search via
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
ipv4_address is part of the base object.
ipv4_address cannot be updated.
ipv4_address cannot be written.

**ipv6_address**

The IPv6 Address address of the Grid member.

Type
String.

Search
The field is available for search via
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
ipv6_address is part of the base object.
ipv6_address cannot be updated.
ipv6_address cannot be written.

**status**

The Grid member threat analytics status.

Type
String.

Valid values are:

• FAILED
• INACTIVE
• UNKNOWN
• WARNING
• WORKING

Search
The field is not available for search.

Notes
status is part of the base object.
status cannot be updated.
status cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>enable_service</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>host_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ipv4_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ipv6_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.130 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:** member:threatprotection/YXRwLm1lbWJjc9hdHBfcHJvdGVycGlcQw: infoblox.localdomain

#### Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Scheduling
- CSV export

The object cannot be managed on the 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.
**comment**

The human readable comment for member threat protection properties.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

cannot be updated.

cannot be written.

**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**

Determines if multiple BIND responses via TCP connection is enabled or not.

**Type**

Bool.

**Create**

The default value is *True*.

**Search**
enable_nat_rules

Determine 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).

capabilities

disable_multiple_dns_tcp_request is associated with the field use_disable_multiple_dns_tcp_request (see use flag).

event_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`).

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>hardware_model</code></td>
<td>The hardware model of the member.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td>hardware_model cannot be updated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• <code>=</code> (exact equality)</td>
<td>hardware_model cannot be written.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• <code>~=</code> (regular expression)</td>
<td></td>
</tr>
<tr>
<td><code>hardware_type</code></td>
<td>The hardware type of the member.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td>hardware_type cannot be updated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• <code>=</code> (exact equality)</td>
<td>hardware_type cannot be written.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• <code>~=</code> (regular expression)</td>
<td></td>
</tr>
<tr>
<td><code>host_name</code></td>
<td>A Grid member name.</td>
<td>String</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The field is available for search via
  • ‘=’ (exact equality)

Notes
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
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
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.

<table>
<thead>
<tr>
<th><strong>profile</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>profile</strong></td>
</tr>
<tr>
<td>The Threat Protection profile associated with the member.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_current_ruleset</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_current_ruleset</strong></td>
</tr>
<tr>
<td>Use flag for: current_ruleset</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_disable_multiple_dns_tcp_request</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_disable_multiple_dns_tcp_request</strong></td>
</tr>
<tr>
<td>Use flag for: disable_multiple_dns_tcp_request</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**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.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>current_ruleset</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>disable_multiple_dns_tcp_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_nat_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_service</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>events_per_second_per_rule</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>hardware_model</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>hardware_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>host_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>ipv4address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>ipv6address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>nat_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>profile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>use_current_ruleset</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_disable_multiple_dns_tcp_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_nat_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_events_per_second_per_rule</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.131 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: msserver/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1.0.0.1

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 the 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.

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

ad_domain cannot be updated.
ad_domain cannot be written.
**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.

**Search**
The field is available for search via

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

**Notes**
address is part of the base object.
address cannot be updated.
address cannot be written.

**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**
root_ad_domain cannot be updated.
root_ad_domain cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ad_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ad_user</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td>root_ad_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.132 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: msserver:adsites:domain/ZG5zLmJpbmRfY25h:somedomain/default

### Restrictions

The object does not support the following operations:

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

The object cannot be managed on the 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.

#### 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
ea_definition cannot be updated.
ea_definition cannot be written.

<table>
<thead>
<tr>
<th>ms_sync_master_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ms_sync_master_name</td>
</tr>
<tr>
<td>The IP address or FQDN of the managing master for the MS server, if applicable.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>ms_sync_master_name cannot be updated.</td>
</tr>
<tr>
<td>ms_sync_master_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
<tr>
<td>The name of the Active Directory Domain properties object.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
</table>
| The field is available for search via
  - ‘:=’ (case insensitive search)
  - ‘=’ (exact equality)
  - ‘~=' (regular expression) |
| Notes |
| name is part of the base object. |
| name cannot be updated. |
| name cannot be written. |
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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=’ (regular expression)

Notes
netbios is part of the base object.
netbios cannot be updated.
netbios cannot be written.

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
network_view is part of the base object.
network_view cannot be updated.
network_view cannot be written.

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

read_only cannot be updated.
read_only cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ea_definition</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ms_sync_master_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>netbios</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>read_only</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.133 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 the 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:
### 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**

domain is part of the base object.

### 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

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

**Notes**

name is part of the base object.

### networks

The list of networks to which the device interfaces belong.

**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.

**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 (A/An network object array). This parameter is mandatory. The list of networks associated to this site.

**Output fields**

None

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>domain</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>networks</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

**3.134 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: msserver:dhcp/ZG5zLm5ldHdvcmtdmlldyQxMTk:1.0.0.1

**Restrictions**

The object does not support the following operations:

- Create (insert)
- Delete
- Permissions

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

The object cannot be managed on the 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**.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
</table>

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

**Notes**
address is part of the base object.
address cannot be updated.
address cannot be written.

<table>
<thead>
<tr>
<th>dhcp_utilization</th>
</tr>
</thead>
</table>

**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**
A string describing the utilization level of DHCP objects that belong to the DHCP Microsoft Server.

Valid values are:
- FULL
- HIGH
- LOW
- NORMAL

The field is not available for search.

Notes

dhcp_utilization_status cannot be updated.
dhcp_utilization_status cannot be written.

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

dynamic_hosts cannot be updated.
dynamic_hosts cannot be written.

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`).

<table>
<thead>
<tr>
<th>login_password</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>static_hosts</th>
</tr>
</thead>
</table>

**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
static_hosts cannot be updated.
static_hosts cannot be written.

<table>
<thead>
<tr>
<th>synchronization_interval</th>
</tr>
</thead>
</table>

**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**

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**
total_hosts cannot be updated.
total_hosts cannot be written.

**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 flag for: synchronization_interval

**Type**

Bool.

**Create**

The default value is False.

**Search**

The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=~</td>
</tr>
<tr>
<td>dhcp_utilization</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_utilization_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dynamic_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>login_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>login_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>static_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>synchronization_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>total_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_login</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>use_synchronization_interval</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.135 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: msserver:dns/ZG5zLm5ldHdvemtfdmllyQxMTk:1.0.0.1

**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 the 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

**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

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

**Notes**
address is part of the base object.
address cannot be updated.
address cannot be written.

### enable_dns_reports_sync

**enable_dns_reports_sync**
Determines if DNS reports data synchronization from this 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).
<table>
<thead>
<tr>
<th>login_name</th>
<th>login_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>The login name of the DNS Microsoft Server.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is <em>undefined</em>.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>login_name is associated with the field <em>use_login</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>login_password</th>
<th>login_password</th>
</tr>
</thead>
<tbody>
<tr>
<td>The login password of the DNS Microsoft Server.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is <em>undefined</em>.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td>login_password is associated with the field <em>use_login</em> (see <em>use flag</em>). login_password is not readable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>synchronization_interval</th>
<th>synchronization_interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>The minimum number of minutes between two synchronizations.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is 2.</td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
<td></td>
</tr>
</tbody>
</table>
synchronization_interval is associated with the field use_synchronization_interval (see use flag).

**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 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 flag for: synchronization_interval  

| Type  | Bool.  
|-------|-------|
| Create | The default value is False.  
| Search | The field is not available for search.  

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>enable_dns_reports_sync</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>login_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>login_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>synchronization_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_dns_reports_sync</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_login</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_synchronization_interval</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.136 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:** mssuperscope/ZG5zLmJpbmRfY25h:scopename/networkviewname

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>ranges</td>
<td></td>
</tr>
</tbody>
</table>
comment

The superscope descriptive comment.

Type
String.

Create
The default value is *empty*.

Search
The field is available for search via

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

### 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
dhcp_utilization cannot be updated.
dhcp_utilization cannot be written.

### dhcp_utilization_status

dhcp_utilization_status

The utilization level of DHCP range objects that belong to superscope.

Type
String.

Valid values are:

- FULL
- HIGH
- LOW
- NORMAL
**Search**
The field is not available for search.

**Notes**
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**
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**
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.

<table>
<thead>
<tr>
<th>high_water_mark</th>
</tr>
</thead>
</table>

**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**
high_water_mark cannot be updated.
high_water_mark cannot be written.

<table>
<thead>
<tr>
<th>high_water_mark_reset</th>
</tr>
</thead>
</table>

**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**
high_water_mark_reset cannot be updated.
high_water_mark_reset cannot be written.

<table>
<thead>
<tr>
<th>low_water_mark</th>
</tr>
</thead>
</table>

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

**Notes**
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
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**
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

total_hosts cannot be updated.
total_hosts cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>dhcp_utilization</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_utilization_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>dynamic_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>high_water_mark</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>high_water_mark_reset</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>low_water_mark</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>low_water_mark_reset</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ranges</td>
<td>[obj]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>static_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>total_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.137 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: namedacl/ZG5zLm5ldHdvcmtdmldyQxMTk:ACL1

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes

comment is part of the base object.
**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**
*exploded_access_list* cannot be updated.
*exploded_access_list* cannot be written.

**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**

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

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

Notes

tname is part of the base object.

**Function Calls**

**validate_acl_items**

This function is used to validate ACL items and return the validation result in a CSV file format if validation fails and returns 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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>access_list</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>exploded_access_list</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

**3.138 natgroup : Network Address Translation group object.**

NAT Groups are necessary if the Grid master is behind a NAT device and there members behind both side of the NAT device. Any member on the same side as the master go into the same NAT group as the master and use their interface address for Grid communication with each other. Grid members on the other side of that NAT device do not go into the same NAT group as the master and use 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:** natgroup/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNILjI1Mg: nat1
**Restrictions**

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

*comment*

The NAT group descriptive comment.

*Type*

String.

*Create*

The default value is \*undefined\*.

*Search*

The field is available for search via

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

*Notes*

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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes
name is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
</tbody>
</table>

#### 3.139 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: network/5ldHdvcmskMTEuMC4:10.0.0.0/8/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, network, network_view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>network</td>
<td></td>
</tr>
</tbody>
</table>

**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

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**
auto_create_reversezone cannot be updated.
auto_create_reversezone is not readable.

### 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**

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**

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 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

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

Notes
comment is part of the base object.

<table>
<thead>
<tr>
<th>conflict_count</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>conflict_count</strong></td>
</tr>
<tr>
<td>The number of conflicts discovered via network discovery.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>conflict_count cannot be updated.</td>
</tr>
<tr>
<td>conflict_count cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ddns_domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ddns_domainname</strong></td>
</tr>
<tr>
<td>The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>ddns_domainname is associated with the field use_ddns_domainname (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ddns_generateHostname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ddns_generate_hostname</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
</tbody>
</table>
**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**

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**

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

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

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
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_bootstrap is associated with the field *use_deny_bootstrap* (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**
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**
dhcp_utilization_status cannot be updated.
dhcp_utilization_status cannot be written.

**disable**

Determine 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 for this network.

**Type**

String.

**Valid values are:**

- COMPLETE
- FAILED
- NONE
- PENDING
- RUNNING

**Search**

The field is not available for search.

**Notes**

discover_now_status cannot be updated.
discover_now_status cannot be written.

**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

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

### 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

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

### 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

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

**Notes**

discovered_vlan_id cannot be updated.
discovered_vlan_id cannot be written.
**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

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

**Notes**

discovered_vlan_name cannot be updated.
discovered_vlan_name cannot be written.

**discovery_basic_poll_settings**

The discovery basic poll settings for this network.

**Type**

A/An Basic Poll Settings struct.

**Create**

The default value is:

```json
    { 'auto_arp_refresh_before_switch_port_polling': True,
      'complete_ping_sweep': False,
      'device_profile': False,
      'netbios_scanning': False,
      'port_scanning': False,
      'smart_subnet_ping_sweep': False,
      'snmp_collection': True,
      'switch_port_data_collection_polling': 'PERIODIC',
      'switch_port_data_collection_polling_interval': 3600}
```

**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**

The discovery blackout setting for this network.

**Type**
A/An *Blackout Setting* struct.

**Create**
The default value is:
```python
{'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**

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**
discovery_engine_type cannot be updated.
discovery_engine_type cannot be written.

**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**
dynamic_hosts cannot be updated.
dynamic_hosts cannot be written.

---

### email_list

e-mail_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**
e-mail_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`).

<table>
<thead>
<tr>
<th>enable_email_warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_email_warnings</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_ifmap_publishing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_ifmap_publishing</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_immediate_discovery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_immediate_discovery</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>
**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.

**endpoint_sources**

*endpoint_sources*

The endpoints that provide data for the DHCP Network object.

**Type**

A/An *ciscoise:endpoint* object array.

This field supports nested return fields as described *here*.

**Search**

The field is not available for search.

**Notes**

endpoint_sources cannot be updated.

endpoint_sources cannot be written.
**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**

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**

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:

```json
{
    '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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

### 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**
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.
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

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: MS DHCP server struct, Grid member serving DHCP struct array.

**Create**

The default value is:

```
empty
```
### 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`.

**Notes**

`mgm_private` is associated with the field `use_mgm_private` (see `use flag`).

### 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**

`mgm_private_overridable` cannot be updated.
`mgm_private_overridable` cannot be written.

### ms_ad_user_data

The Microsoft Active Directory user related information.

**Type**

An `Active Directory User Data` struct.

**Search**

The field is not available for search.

**Notes**
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.

**NOTE:** Automatic selection is supported only for JSON and XML requests.

**Examples:**

- `func:nextavailablenetwork:network/ZG54dfgsrDFEFifsfsLzA: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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    '_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

- '=' (exact equality)
• ‘~’ (regular expression)

Notes
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
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
network_view is part of the base object.
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:

```json
[ { '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:

```json
{ '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).

<table>
<thead>
<tr>
<th>pxe_lease_time</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>recycle_leases</th>
</tr>
</thead>
</table>

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**

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**

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**

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**

The number of static DHCP addresses configured in the network.

**Type**
Unsigned integer.

**Search**
The field is not available for search.

**Notes**
static_hosts cannot be updated.
static_hosts cannot be written.
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

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
template cannot be updated.
template is not readable.

total_hosts

The total number of DHCP addresses configured in the network.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
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**

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 flag for: authority

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

**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 flag for: bootfile

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

**use_bootserver**

Use flag for: bootserver

**Type**
Bool.
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ddns_domainname</th>
</tr>
</thead>
</table>

**use_ddns_domainname**

Use flag for: ddns_domainname

**Type**

Bool.

Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ddns_generate_hostname</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>use_ddns_ttl</th>
</tr>
</thead>
</table>

**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 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 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 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 flag for: `discovery_basic_poll_settings`

**Type**
Bool.
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_email_list</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_email_list</strong></td>
</tr>
<tr>
<td>Use flag for: email_list</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_ddns</strong></td>
</tr>
<tr>
<td>Use flag for: enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_enable_dhcp_thresholds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_dhcp_thresholds</strong></td>
</tr>
<tr>
<td>Use flag for: enable_dhcp_thresholds</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
### 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 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 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 flag for: ignore_id

**Type**

Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipam_email_addresses</th>
</tr>
</thead>
</table>

Use flag for: ipam_email_addresses

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipam_threshold_settings</th>
</tr>
</thead>
</table>

Use flag for: ipam_threshold_settings

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipam_trap_settings</th>
</tr>
</thead>
</table>

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 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 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 flag for: mgm_private

**Type**

Bool.

**Create**

The default value is `False`.

**Search**

The field is not available for search.

---

**use_nextserver**

Use flag for: nextserver

**Type**

Bool.
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_options</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_options</td>
</tr>
</tbody>
</table>
Use flag for: options

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_pxe_lease_time</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_pxe_lease_time</td>
</tr>
</tbody>
</table>
Use flag for: pxe_lease_time

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_recycle_leases</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_recycle_leases</td>
</tr>
</tbody>
</table>
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 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 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 flag for: zone_associations

**Type**

Bool.

**Create**

The default value is *True*.

**Search**

The field is not available for search.

**utilization**

The network utilization in percentage.

**Type**

Unsigned integer.
Search
The field is not available for search.
Notes
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
utilization_update cannot be updated.
utilization_update 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

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 override 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).

---

**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 “msd-hcpserver,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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authority</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto_create_reversezone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootfile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>conflict_count</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_server_always_updates</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_update_fixed_addresses</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_use_option81</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>delete_reason</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_utilization</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_utilization_status</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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### Search-only Fields List

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### 3.140 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 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
3.141 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: `networkcontainer/5ldHdvcmkMTEuMC4:10.0.0.0/8/external`

**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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
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<tbody>
<tr>
<td>network</td>
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**authority**

The object supports the following field:

**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

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**

- `auto_create_reversezone` cannot be updated.
- `auto_create_reversezone` is not readable.

### 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

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).

<table>
<thead>
<tr>
<th><strong>cloud_info</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cloud_info</strong></td>
</tr>
<tr>
<td>Structure containing all cloud API related information for this object.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>A/An <em>Cloud Information</em> struct.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>comment</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>comment</strong></td>
</tr>
<tr>
<td>Comment for the network container; maximum 256 characters.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘:=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~:=’ (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>comment is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ddns_domainname</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ddns_domainname</strong></td>
</tr>
<tr>
<td>The dynamic DNS domain name the appliance uses specifically for DDNS updates for this network container.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
</tbody>
</table>
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
**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:

```json
{
    'auto_arp_refresh_before_switch_port_polling': True,
    'complete_ping_sweep': False,
    'device_profile': False,
    'netbios_scanning': False,
    'port_scanning': False,
    'smart_subnet_ping_sweep': False,
    'snmp_collection': False,
    'switch_port_data_collection_polling': 'PERIODIC',
    'switch_port_data_collection_polling_interval': 3600
}
```

**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**

The discovery blackout setting for this network container.

**Type**

A/An *Blackout Setting* struct.

**Create**

The default value is:

```json
{
    '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**

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
eemail_list is associated with the field use_email_list (see use flag).

**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**

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**
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**

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**

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 `ciscoise:endpoint` object array.

This field supports nested return fields as described *here*.

**Search**

The field is not available for search.

**Notes**

endpoint_sources cannot be updated.

endpoint_sources cannot be written.
### 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

**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

**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**

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**

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**

A list of MAC addresses the appliance will ignore.

**Type**

String array.

**Create**

The default value is empty.
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

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

The IPAM Trap settings for this network container.

Type
A/An IPAM Trap Settings struct.

Create
The default value is:
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**
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**
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

This field contains the logic filters to be applied on the 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

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
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**

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**

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**
mgm_private_overridable cannot be updated.
mgm_private_overridable cannot be written.
### 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**

*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.

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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    '_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

• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes

network is part of the base object.
network cannot be updated.

<table>
<thead>
<tr>
<th>network_container</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_container</td>
</tr>
<tr>
<td>The network container to which this network belongs, if any.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_container cannot be updated.</td>
</tr>
<tr>
<td>network_container cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
</tr>
<tr>
<td>The name of the network view in which this network resides.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>The default network view</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_view is part of the base object.</td>
</tr>
<tr>
<td>network_view cannot be updated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>nextserver</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextserver</td>
</tr>
<tr>
<td>The name in <em>FQDN</em> and/or <em>IPv4 Address</em> of the next server that the host needs to boot.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
</tbody>
</table>
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**

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**

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**

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
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**
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

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

Determines whether the network container is unmanaged or not.

Type
Bool.
Create
The default value is False.
**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 flag for: authority

**Type**

Bool.

**Create**

The default value is `False`.

**Search**

The field is not available for search.

**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.
<table>
<thead>
<tr>
<th><strong>use_bootfile</strong></th>
</tr>
</thead>
</table>

**use_bootfile**  
Use flag for: bootfile  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_bootserver</strong></th>
</tr>
</thead>
</table>

**use_bootserver**  
Use flag for: bootserver  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_ddns_domainname</strong></th>
</tr>
</thead>
</table>

**use_ddns_domainname**  
Use flag for: ddns_domainname  
**Type**  
Bool.  
**Create**  
The default value is *False*.  
**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_ddns_generate_hostname</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>use_ddns_ttl</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ddns_ttl</td>
</tr>
<tr>
<td>Use flag for: ddns_ttl</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

| 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 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 flag for: discovery_basic_poll_settings

Type
discovery_basic_poll_settings

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

use_email_list

Use flag for: email_list

Type
email_list

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

use_enable_ddns

Use flag for: enable_ddns

Type
enable_ddns

Type
Bool.
Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_dhcp_thresholds</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_dhcp_thresholds</td>
</tr>
<tr>
<td>Use flag for: enable_dhcp_thresholds</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_enable_discovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_enable_discovery</td>
</tr>
<tr>
<td>Use flag for: discovery_member, enable_discovery</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ignore_dhcp_option_list_request</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td>Use flag for: ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

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 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 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 flag for: mgm_private

**Type**

Bool.

Create
The default value is False.

Search
The field is not available for search.
<table>
<thead>
<tr>
<th>use_nextserver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_nextserver</strong></td>
</tr>
<tr>
<td>Use flag for: nextserver</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</table>

<table>
<thead>
<tr>
<th>use_options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_options</strong></td>
</tr>
<tr>
<td>Use flag for: options</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
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<td>The field is not available for search.</td>
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</table>

<table>
<thead>
<tr>
<th>use_pxe_lease_time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_pxe_lease_time</strong></td>
</tr>
<tr>
<td>Use flag for: pxe_lease_time</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_recycle_leases</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Use flag for: recycle_leases</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_subscribe_settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_subscribe_settings</td>
</tr>
<tr>
<td>Use flag for: subscribe_settings</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_update_dns_on_lease_renewal</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_update_dns_on_lease_renewal</td>
</tr>
<tr>
<td>Use flag for: update_dns_on_lease_renewal</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_zone_associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_zone_associations</td>
</tr>
<tr>
<td>Use flag for: zone_associations</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is True.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**utilization**

Utilization
The network container utilization in percentage.

**Type**
Unsigned integer.

**Search**
The field is not available for search.

**Notes**
utilization cannot be updated.
utilization 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_zoneAssociations (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).
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>authority</strong></td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>auto_create_reversezone</strong></td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>bootfile</strong></td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>bootserver</strong></td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>cloud_info</strong></td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>comment</strong></td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: =~</td>
</tr>
<tr>
<td><strong>ddns_domainname</strong></td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>ddns_generate_hostname</strong></td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td><strong>ddns_server_always_updates</strong></td>
<td>Bool</td>
<td>N</td>
<td>N</td>
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<td>N/A</td>
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<td><strong>ddns_ttl</strong></td>
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<td>N</td>
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<td>N/A</td>
</tr>
<tr>
<td><strong>ddns_update_fixed_addresses</strong></td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>ddns_use_option81</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>delete_reason</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_basic_poll_settings</td>
<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_blackout_setting</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovery_engine_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>discovery_member</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>email_list</td>
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<td>N</td>
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<td>N/A</td>
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<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<td>N/A</td>
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<td>enable_email_warnings</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_immediate_discovery</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_pxe_lease_time</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_snmp_warnings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>endpoint_sources</td>
<td>[obj]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>high_water_mark</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>high_water_mark_reset</td>
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<td>N</td>
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<td>ignore_dhcp_option_list_request</td>
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<td>N</td>
<td>N</td>
<td>N</td>
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<td>ignore_id</td>
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<td>N</td>
<td>N/A</td>
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<tr>
<td>ignore_mac_addresses</td>
<td>[String]</td>
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<td>N</td>
<td>N</td>
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<td>ipam_email_addresses</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>ipam_threshold_settings</td>
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<td>ipam_trap_settings</td>
<td>struct</td>
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</tr>
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<td>N</td>
<td>N</td>
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</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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</tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
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</tr>
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<td>= ~</td>
</tr>
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<td>N</td>
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</tr>
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<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>nextserver</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>pxe_lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
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</tr>
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<td>N</td>
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<tr>
<td>rir</td>
<td>String</td>
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<td>N</td>
<td>=</td>
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<tr>
<td>rir_organization</td>
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<td>rir_registration_action</td>
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<td>N</td>
<td>N/A</td>
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<td>N/A</td>
</tr>
<tr>
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<td>N</td>
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</table>

Continued on next page
### Table 3.25 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N</td>
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<tr>
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</tr>
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<td>N</td>
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<td>N/A</td>
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<td>N/A</td>
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<td>N</td>
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<td>N</td>
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</table>

**Delete Arguments List**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>remove_subnets</td>
<td>Bool</td>
</tr>
</tbody>
</table>

### 3.142 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: networktemplate/5ldHdvcmzkMTEuMC4:testnt

**Restrictions**

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>netmask</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**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 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**

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**

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**

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**

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 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

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

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

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.

<table>
<thead>
<tr>
<th>ddns_ttl</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>ddns_update_fixed_addresses</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>ddns_use_option81</th>
</tr>
</thead>
</table>

**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_delay_bootp* (see *use flag*).
**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**

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**

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`).
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_email_warnings</strong></td>
<td>Determines if DHCP threshold warnings are sent through email.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

| **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**  | 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.                                                                                                       |

| **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_addressTemplates

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

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

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**

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**

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**

---
The IPAM Threshold settings for this network template.

Type
A/An IPAM Threshold Settings struct.

Create
The default value is:

```json
{ '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

The IPAM Trap settings for this network template.

Type
A/An IPAM Trap Settings struct.

Create
The default value is:

```json
{ '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

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

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:

```text
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

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

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**

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: *MS DHCP server* struct, *Grid member serving DHCP* struct array.

Create
The default value is:
`empty`

Search
The field is not available for search.

**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

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

**Notes**
name is part of the base object.
**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**

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**

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 \textit{True}.

\textbf{Search}

The field is not available for search.

\textbf{Notes}

\textit{recycle\_leases} is associated with the field \textit{use\_recycle\_leases} (see \textit{use flag}).

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
\textbf{rir} \\
\hline
\textbf{rir} \\
\hline
\textbf{THe registry (RIR) that allocated the network address space.} \\
\textbf{Type} \\
String. \\
\textbf{Valid values are:} \\
\begin{itemize}
\item NONE \\
\item RIPE \\
\end{itemize} \\
\textbf{Search} \\
The field is available for search via \\
\begin{itemize}
\item `=` (exact equality) \\
\end{itemize} \\
\textbf{Notes} \\
rir cannot be updated. \\
rir cannot be written. \\
\end{tabular}
\end{table}

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
\textbf{rir\_organization} \\
\hline
\textbf{rir\_organization} \\
The RIR organization associated with the network. \\
\textbf{Type} \\
String. \\
\textbf{Values with leading or trailing white space are not valid for this field.} \\
\textbf{Create} \\
The default value is \textit{empty}. \\
\textbf{Search} \\
The field is available for search via \\
\begin{itemize}
\item `=` (exact equality) \\
\end{itemize}
\end{tabular}
\end{table}
**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.

<table>
<thead>
<tr>
<th>use_ddns_update_fixed_addresses</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_ddns_update_fixed_addresses</td>
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<td>Use flag for: ddns_update_fixed_addresses</td>
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<tr>
<td>Type</td>
</tr>
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<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
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<td>Search</td>
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<table>
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<td>Create</td>
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<td>Use flag for: deny_bootp</td>
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</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
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<td>Search</td>
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<td>The field is not available for search.</td>
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<td>use_email_list</td>
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<td>----------------</td>
</tr>
<tr>
<td>Use flag for: email_list</td>
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<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
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<table>
<thead>
<tr>
<th>use_enable_ddns</th>
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<td>Use flag for: enable_ddns</td>
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<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
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<table>
<thead>
<tr>
<th>use_enable_dhcp_thresholds</th>
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<tr>
<td>Use flag for: enable_dhcp_thresholds</td>
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<td>Type</td>
</tr>
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<tr>
<td>Search</td>
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<table>
<thead>
<tr>
<th>use_ignore_dhcp_option_list_request</th>
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</thead>
<tbody>
<tr>
<td>Use flag for: ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

**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 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 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 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 flag for: logic_filter_rules

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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 flag for: options

**Type**

Bool.
Create  
The default value is *False*.

Search
The field is not available for search.

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<thead>
<tr>
<th><strong>use_pxe_lease_time</strong></th>
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</thead>
<tbody>
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Create  
The default value is *False*.

Search
The field is not available for search.

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<tr>
<td>Use flag for: recycle_leases</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
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<td>Bool.</td>
</tr>
</tbody>
</table>

Create  
The default value is *False*.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_update_dns_on_lease_renewal</strong></th>
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</thead>
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<tr>
<td><strong>use_update_dns_on_lease_renewal</strong></td>
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<td>Use flag for: update_dns_on_lease_renewal</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
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Create  
The default value is *False*.

Search
The field is not available for search.
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<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_authority</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootfile</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_domainname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_generate_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_update_fixed_addresses</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_use_option81</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_email_list</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_dhcp_thresholds</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipam_email_addresses</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipam_threshold_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipam_trap_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_lease_scavenge_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_logic_filter_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_nextserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_pxe_lease_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use.recycle_leases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

### 3.143 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: `networkuser/ZG5zLm5ldHdvcmtdmllldyQxMTk:NetworkUser1/external`

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export
The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td></td>
</tr>
<tr>
<td>domainname</td>
<td></td>
</tr>
<tr>
<td>first_seen_time</td>
<td></td>
</tr>
<tr>
<td>guid</td>
<td></td>
</tr>
<tr>
<td>logon_id</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>network_view</td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

**Notes**

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.
The field is not available for search.

**Notes**

address_object cannot be updated.
address_object cannot be written.

<table>
<thead>
<tr>
<th>data_source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>data_source</strong></td>
</tr>
<tr>
<td>The Network User data source.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>data_source cannot be updated.</td>
</tr>
<tr>
<td>data_source cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>data_source_ip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>data_source_ip</strong></td>
</tr>
<tr>
<td>The Network User data source <em>IPv4 Address</em> or <em>IPv6 Address</em> or <em>FQDN</em> address.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>data_source_ip cannot be updated.</td>
</tr>
<tr>
<td>data_source_ip cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>domainname</strong></td>
</tr>
<tr>
<td>The domain name of the Network User.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
</tbody>
</table>
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

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.

<table>
<thead>
<tr>
<th>last_updated_time</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_updated_time</td>
</tr>
</tbody>
</table>
The last updated timestamp of the Network User.

**Type**
Timestamp.

**Create**
The default value is *undefined*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>logon_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>logon_id</td>
</tr>
</tbody>
</table>
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

<table>
<thead>
<tr>
<th>logout_time</th>
</tr>
</thead>
<tbody>
<tr>
<td>logout_time</td>
</tr>
</tbody>
</table>

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

**Notes**
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**
network cannot be updated.

network cannot be written.
**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**
network_view is part of the base object.

**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**
user_status is part of the base object.
user_status cannot be updated.
user_status 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>address_object</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>data_source</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>data_source_ip</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domainname</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>first_seen_time</td>
<td>Timestamp</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>guid</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>last_seen_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_updated_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>logon_id</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>logout_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>parent</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

3.144 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.
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: networkview/ZG5zLm5ldHdvemtfdmlldyQxMTk:networkview1/true

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

These fields are actual members of the object; 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

associated_dns_views

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

The list of DNS views associated with this network view.

Type
String array.

Search
The field is not available for search.

Notes
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**
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:

```json
{ '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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes

comment is part of the base object.

**ddns_dns_view**

**ddns_dns_view**
The DNS views that will receive the updates if user 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 wich 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.

### 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

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**

- `is_default` is part of the base object.
- `is_default` cannot be updated.
- `is_default` cannot be written.

### 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.

<table>
<thead>
<tr>
<th>ms_ad_user_data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_ad_user_data</strong></td>
</tr>
<tr>
<td>The Microsoft Active Directory user related information.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>A/An <em>Active Directory User Data</em> struct.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>ms_ad_user_data cannot be updated.</td>
</tr>
<tr>
<td>ms_ad_user_data cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
</tr>
<tr>
<td>Name of the network view.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>name is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>remote_forward_zones</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>remote_forward_zones</strong></td>
</tr>
<tr>
<td>The list of forward-mapping zones to which the DHCP server sends the updates.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>A/An <em>Remote DDNS Zone structure</em> struct array.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
| The default value is:
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.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>associated_dns_views</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>associated_members</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_dns_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_zone_primaries</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>internal_forward_zones</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_default</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>mgm_private</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>remote_forward_zones</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>remote_reverse_zones</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>


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:** notification:rest:endpoint/b25ILmVuZHBvaW50JDMzOQ:wintermute

### 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 the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>outbound_member_type</td>
<td></td>
</tr>
<tr>
<td>uri</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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.

<table>
<thead>
<tr>
<th><strong>client_certificate_valid_from</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>client_certificate_valid_from</strong></td>
</tr>
<tr>
<td>The timestamp when client certificate for a notification REST endpoint was created.</td>
</tr>
</tbody>
</table>

**Type**  
Timestamp.

**Search**  
The field is not available for search.

**Notes**  
client_certificate_valid_from cannot be updated.  
client_certificate_valid_from cannot be written.

<table>
<thead>
<tr>
<th><strong>client_certificate_valid_to</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>client_certificate_valid_to</strong></td>
</tr>
<tr>
<td>The timestamp when client certificate for a notification REST endpoint expires.</td>
</tr>
</tbody>
</table>

**Type**  
Timestamp.

**Search**  
The field is not available for search.

**Notes**  
client_certificate_valid_to cannot be updated.  
client_certificate_valid_to cannot be written.

<table>
<thead>
<tr>
<th><strong>comment</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>comment</strong></td>
</tr>
</tbody>
</table>
The comment of a notification REST endpoint.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is not available for search.

### 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

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**

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

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

**Notes**

name is part of the base object.

---

**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**

outbound_member_type is part of the base object.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
uri is part of the base object.

<table>
<thead>
<tr>
<th>username</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>vendor_identifier</th>
</tr>
</thead>
</table>

The vendor identifier.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
• ‘~’ (regular expression)

### wapi_user_name

**Type**
- String.

**Create**
- The default value is *empty*.

**Search**
- The field is not available for search.

### wapi_user_password

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>client_certificate_subject</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_certificate_token</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>client_certificate_valid_from</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>client_certificate_valid_to</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>ext</td>
</tr>
<tr>
<td>log_level</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>outbound_member_type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>outbound_members</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>server_cert_validation</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>sync_disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>template_instance</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>uri</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>username</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>vendor_identifier</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>: = ~</td>
</tr>
<tr>
<td>wapi_user_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>wapi_user_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

3.146 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: notification:rest:template/ b25ILnRljhX8sYXRIx3Jlc3RhcGk3k2V0dVjdG9y:setvector
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 the 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.

<table>
<thead>
<tr>
<th>action_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>action_name</td>
</tr>
<tr>
<td>The action name.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>action_name cannot be updated.</td>
</tr>
<tr>
<td>action_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>added_on</th>
</tr>
</thead>
<tbody>
<tr>
<td>added_on</td>
</tr>
<tr>
<td>The time stamp when a template was added.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>added_on cannot be updated.</td>
</tr>
<tr>
<td>added_on cannot be written.</td>
</tr>
</tbody>
</table>
**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**
content is part of the base object.

**event_type**

*event_type*
The event type.

**Type**
Enum values array.

**Valid values are:**
- ANALYTICS_DNS_TUNNEL
- DHCPLEASE
- DNS_RPZ

**Search**
The field is not available for search.

**Notes**
event_type cannot be updated.
event_type cannot be written.

**name**

The name of a notification REST template.

**Type**

String.

**Create**

The default value is *undefined*.

**Search**

The field is available for search via

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

**Notes**

name is part of the base object.

**outbound_type**

The outbound type for the template.

**Type**

String.

**Valid values are:**

- DXL
- REST

**Search**

The field is available for search via

- ‘=’ (exact equality)

**Notes**

outbound_type cannot be updated.
outbound_type cannot be written.
**parameters**

The notification REST template parameters.

**Type**

A/An *Notification REST template parameter* struct array.

**Search**

The field is not available for search.

**Notes**

parameters cannot be updated.

parameters cannot be written.

**template_type**

The template type.

**Type**

String.

**Valid values are:**

- REST_ENDPOINT
- REST_EVENT

**Search**

The field is not available for search.

**Notes**

template_type cannot be updated.

template_type cannot be written.

**vendor_identifier**

The vendor identifier.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

vendor_identifier cannot be updated.

vendor_identifier cannot be written.
3.147 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: notification:rule/ZG5zLm5ldHdvcmffdmldyQxMTk:rule1

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>event_type</td>
<td></td>
</tr>
<tr>
<td>expression_list</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>notification_action</td>
<td></td>
</tr>
<tr>
<td>notification_target</td>
<td></td>
</tr>
</tbody>
</table>
**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

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

**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**

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**

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**

The list of fields that must be used in the notification rule for event deduplication.

**Type**

Enum values array.

**Valid values are:**

- NETWORK
- NETWORK_VIEW
- QUERY_NAME
- QUERY_TYPE
- RPZ_POLICY
- RPZ_TYPE
- SOURCE_IP
Create
The default value is *empty.*

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>event_deduplication_lookback_period</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>event_type</th>
</tr>
</thead>
</table>

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_HOST_ADDRESS_IPV4
- DB_CHANGE_DNS_HOST_ADDRESS_IPV6
- DHCP_LEASES
- DNS_RPZ
- IPAM
- SECURITY_ADP
Create
The field is required on creation.

Search
The field is available for search via

- ‘=’ (exact equality)

Notes
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

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

Notes
name is part of the base object.
name cannot be updated.
**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**

notification_action is part of the base object.

---

**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**

notification_target is part of the base object.

---

**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*).

---

**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**

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 flag for: publish_settings

**Type**
Bool.

**Create**
The default value is `False`.

**Search**

The field is not available for search.

### 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_members</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_event_deduplication</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_event_deduplication_log</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>event_deduplication_fields</td>
<td>[Enum]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>event_deduplication_lookback_period</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>event_type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>expression_list</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>notification_action</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>notification_target</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>publish_settings</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>selected_members</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template_instance</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_publish_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 3.148 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.

### 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: nsgroup/ZG5zLmJpbmRfY25h:nsgroup1

### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

- **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

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

**Notes**

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:

```plaintext
element
```

**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:

```plaintext
element
```

**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

Determines if the “multiple DNS primaries” feature is enabled for the group.

Type

Bool.

Search

The field is not available for search.

Notes

is_multimaster cannot be updated.

is_multimaster cannot be written.

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

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

Notes

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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>external_primaries</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>external_secondaries</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>grid_primary</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>grid_secondaries</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>is_grid_default</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>is_multimaster</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: ~</td>
</tr>
<tr>
<td>use_external_primary</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.149 nsgrup: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 nsgrup:delegation are *object references*.

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

- Name of the delegated NS group.

Example: nsgrup:delegation/ZG5zLm5zX2dyb3VwJHRlc3Ruc2dlcw:testnsges

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>delegate_to</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

**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**
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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>delegate_to</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

3.150 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: nsgroup:forwardingmember/ZG5zLmJpbmRfY25h:nsgroup1

**Restrictions**

The object does not support the following operations:
- Scheduling
- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>forwarding_servers</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

**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

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**
forwarding_servers is part of the base object.

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

**Notes**
name is part of the base object.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>forwarding_servers</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

### 3.151 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: nsgroup:forwardstubserver/ZG5zLmJpbmRfY25h:nsgroup1

#### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>external_servers</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

---

**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**

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**
external_servers is part of the base object.
**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

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

**Notes**

name is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>::=</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>external_servers</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>::=</td>
</tr>
</tbody>
</table>

**3.152 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: nsgroup:stubmember/ZG5zLmJpbmRfY25h:nsgroup1
Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>stub_members</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>stub_members</th>
</tr>
</thead>
</table>

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.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>stub_members</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.153 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 the 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**

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**

- `network` is part of the base object.
- `network` cannot be updated.
- `network` cannot be written.

**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**

- `ranges` is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>network</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ranges</td>
<td>obj</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**3.154 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.
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: orderedresponsepolicyzones/ZG5zLm5ldHdvcmtdmllyQxMTk:viewname

**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 the 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): *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.

**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

view is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>rp_zones</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.155 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
- MEMBER_AAA_PROPERTIES
- MEMBER_DHCP_PROPERTIES
- MEMBER_DNS_PROPERTIES
- MEMBER_FILE_DIST_PROPERTIES
- MEMBER_SECURITY_PROPERTIES
- NETWORK_CONTAINER
- NETWORK_TEMPLATE
- RANGE_TEMPLATE
Examples

To create object permission for a specific zone, send the reference in the object field: 
{"group": "1", "permission": "READ", "object": "zone_auth/ZG5zLnpvbmuKLi9kZm1hX2t7cC8y: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/ZG5zLm5ldHdvcmtnY291bi4yMC4wLzI0LzA: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: permission: cname/ZG5zLmJpbmRfY25h:group1/WRITE

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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>group</td>
<td>One of group or role is required.</td>
</tr>
<tr>
<td>object</td>
<td>At least one of object or resource_type is required.</td>
</tr>
<tr>
<td>permission</td>
<td></td>
</tr>
<tr>
<td>resource_type</td>
<td>At least one of object or resource_type is required.</td>
</tr>
<tr>
<td>role</td>
<td>One of group or role is required.</td>
</tr>
</tbody>
</table>
**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**

Group is part of the base 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**

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
permission is part of the base object.

<table>
<thead>
<tr>
<th>resource_type</th>
</tr>
</thead>
</table>

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
• BFD_TEMPLATE
• BULKHOST
• 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
• MEMBER_DHCP_PROPERTIES
• MEMBER_DNS_PROPERTIES
• MEMBER_FILE_DIST_PROPERTIES
• MEMBER_SECURITY_PROPERTIES
• MSSERVER
• MS_ADSITES_DOMAIN
• MS_SUPERSCOPE
• MX
• NAPTR
• NETWORK
• NETWORK_CONTAINER
• NETWORK_DISCOVERY
• NETWORK_TEMPLATE
• NETWORK_VIEW
• OCSP_SERVICE
• OPTION_SPACE
• PORT_CONTROL
• PTR
• RANGE
• RANGE_TEMPLATE
• RECLAMATION
• REPORTING_DASHBOARD
• REPORTING_SEARCH
• RESPONSE_POLICY_RULE
• RESPONSE_POLICY_ZONE
• RESTART_SERVICE
• RESTORABLE_OPERATION
• ROAMING_HOST
• RULESET
• SCHEDULE_TASK
• SG_IPV4_NETWORK
• SG_IPV6_NETWORK
• SG_NETWORK_VIEW
• SHARED_A
• SHARED_AAAA
• SHARED_CNAME
• SHARED_MX
• SHARED_NETWORK
• SHARED_RECORD_GROUP
• SHARED_SRV
• SHARED_TXT
• SRV
• SUB_GRID
• SUB_GRID_NETWORK_VIEW_PARENT
• TEMPLATE
• TENANT
• TLSA
• TXT
• VIEW
• ZONE

Create
At least one of object or resource_type is required.

Search
The field is available for search via
  • ‘=’ (exact equality)

Notes
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
role is part of the base object.
**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>group</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>object</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>permission</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>resource_type</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>role</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

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

### 3.156 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 you must do the following: configure at least one RADIUS authentication server group (authentication service), define admin groups for the admins that are authenticated by the RADIUS servers and specify their privileges and settings, 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 following components:

- The name of the RADIUS authentication service.

Example:radius:authservice/ZG5zLm5ldHdvcmtdmldyQxMTk:RADIUSAuth

### Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>servers</td>
<td></td>
</tr>
</tbody>
</table>

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

**Notes**
comment is part of the base object.
**disable**

**disable**
Determines whether the RADIUS auth service is disabled.

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

**Notes**
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**

The RADIUS authentication service name.

**Type**

String.

**Create**

The field is required on creation.

**Search**

The field is available for search via

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

**Notes**

name is part of the base object.

---

**recovery_interval**

The period of time have 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**

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.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>acct_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>acct_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auth_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auth_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cache_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_cache</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>recovery_interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>servers</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.157 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>end_addr</td>
<td></td>
</tr>
<tr>
<td>start_addr</td>
<td></td>
</tr>
</tbody>
</table>

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

Notes
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.

<table>
<thead>
<tr>
<th><strong>deny_bootp</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>deny_bootp</strong></td>
</tr>
<tr>
<td>If set to true, BOOTP settings are disabled and BOOTP requests will be denied.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>deny_bootp is associated with the field <em>use_deny_bootp</em> (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>dhcp_utilization</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>dhcp_utilization</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>dhcp_utilization cannot be updated.</td>
</tr>
<tr>
<td>dhcp_utilization cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>dhcp_utilization_status</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>dhcp_utilization_status</strong></td>
</tr>
<tr>
<td>A string describing the utilization level of the range.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>- FULL</td>
</tr>
<tr>
<td>- HIGH</td>
</tr>
</tbody>
</table>
• LOW
• NORMAL

Search
The field is not available for search.

Notes
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
discover_now_status cannot be updated.
discover_now_status cannot be written.
### discovery_basic_poll_settings

The discovery basic poll settings for this range.

**Type**

A/An *Basic Poll Settings* struct.

**Create**

The default value is:

```python
{
    'auto_arp_refresh_before_switch_port_polling': True,
    'complete_ping_sweep': False,
    'device_profile': False,
    'netbios_scanning': False,
    'port_scanning': False,
    'smart_subnet_ping_sweep': False,
    'snmp_collection': True,
    'switch_port_data_collection_polling': 'PERIODIC',
    'switch_port_data_collection_polling_interval': 3600
}
```

**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

The discovery blackout setting for this range.

**Type**

A/An *Blackout Setting* struct.

**Create**

The default value is:

```python
{
    '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
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**
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**

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**

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**

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

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

**Notes**

end_addr is part of the base object.
**endpoint_sources**

*endpoint_sources*

The endpoints that provide data for the DHCP Range object.

**Type**

A/An *ciscoise:endpoint* object array.

This field supports nested return fields as described *here*.

**Search**

The field is not available for search.

**Notes**

*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 \textit{NONE}.

Search
The field is not available for search.

Notes
ignore\_id is associated with the field use\_ignore\_id (see use\_flag).

\begin{description}
\item [ignore\_mac\_addresses]
\begin{description}
\item [ignore\_mac\_addresses]
A list of MAC addresses the appliance will ignore.
\item [Type]
String array.
\item [Create]
The default value is \textit{empty}.
\item [Search]
The field is not available for search.
\end{description}
\end{description}

\begin{description}
\item [is\_split\_scope]
\begin{description}
\item [is\_split\_scope]
This field will be ‘true’ if this particular range is part of a split scope.
\item [Type]
Bool.
\item [Search]
The field is not available for search.
\item [Notes]
is\_split\_scope cannot be updated.
is\_split\_scope cannot be written.
\end{description}
\end{description}

\begin{description}
\item [known\_clients]
\begin{description}
\item [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.
\item [Type]
\end{description}
\end{description}
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:

```python
empty
```

**Search**
The field is not available for search.
**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**

The Microsoft Active Directory user related information.

Type

A/An *Active Directory User Data* struct.

Search

The field is not available for search.

Notes

*ms_ad_user_data* cannot be updated.

*ms_ad_user_data* cannot be written.

**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.
**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**

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**

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**

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

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

**Notes**

network is part of the base object.

**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**

network_view is part of the base object.

**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**

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:

```json
empty
```

**Search**

The field is not available for search.

**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:

```json
[ { '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**

```
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

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

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**

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**

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**

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*. 
**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**

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**
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**

- `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

- `'='` (exact equality)
- `'^=,'` (regular expression)

**Notes**

- `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

static_hosts cannot be updated.
static_hosts cannot be written.

**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**

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

template cannot be updated.
template is not readable.

**total_hosts**

The total number of DHCP addresses configured in the range.

**Type**

Unsigned integer.

**Search**
The field is not available for search.

**Notes**

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 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 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 flag for: discovery_basic_poll_settings

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.
<table>
<thead>
<tr>
<th><strong>use_email_list</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>use_email_list</strong></td>
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<tr>
<td>Use flag for: email_list</td>
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<tr>
<td><strong>Type</strong></td>
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<tr>
<td>Bool.</td>
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<td><strong>Create</strong></td>
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<td>The default value is <em>False</em>.</td>
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<tr>
<td><strong>Search</strong></td>
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<thead>
<tr>
<th><strong>use_enable_ddns</strong></th>
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<td><strong>use_enable_ddns</strong></td>
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<tr>
<td>Use flag for: enable_ddns</td>
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<td><strong>Type</strong></td>
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<tr>
<td>Bool.</td>
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<tr>
<td><strong>Create</strong></td>
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<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
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<tr>
<td>The field is not available for search.</td>
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<thead>
<tr>
<th><strong>use_enable_dhcp_thresholds</strong></th>
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<td><strong>use_enable_dhcp_thresholds</strong></td>
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<td>Use flag for: enable_dhcp_thresholds</td>
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<td><strong>Type</strong></td>
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<td>Bool.</td>
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<td><strong>Create</strong></td>
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<td><strong>Search</strong></td>
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<tr>
<th><strong>use_enable_discovery</strong></th>
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<tbody>
<tr>
<td><strong>use_enable_discovery</strong></td>
</tr>
<tr>
<td>Use flag for: discovery_member, enable_discovery</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

**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 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 flag for: ignore_id

**Type**
Bool.

Create
The default value is False.

Search
The field is not available for search.
**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 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 flag for**: logic_filter_rules

**Type**

Bool.

**Create**

The default value is False.

**Search**

The field is not available for search.

**use_nextserver**

**Use flag for**: nextserver

**Type**

Bool.
Create
The default value is *False*.

Search
The field is not available for search.

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<tr>
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<td><strong>Search</strong></td>
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**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 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 flag for: update_dns_on_lease_renewal

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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

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<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
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Continued on next page
3.158 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: rangetemplate/ZG5zLmJpbmRfY25h:templatename

Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

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<th>Field</th>
<th>Notes</th>
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<td></td>
</tr>
<tr>
<td>offset</td>
<td></td>
</tr>
</tbody>
</table>

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**

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**

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**

A descriptive comment of a range template object.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

comment is part of the base object.

**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**

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
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
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
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**

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**

e-mail_list is associated with the field *use_email_list* (see *use flag*).

**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**

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

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

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

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

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>nextserver</th>
</tr>
</thead>
</table>

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**

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**
number_of_addresses is part of the base object.

**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**
offset is part of the base object.

**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:

```plaintext
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:

```json
[ { '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)

<table>
<thead>
<tr>
<th>unknown_clients</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>update_dns_on Lease_renewal</th>
</tr>
</thead>
</table>

**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 flag for:** bootfile  
**Type:** Bool.  
**Create:** The default value is *False*.  
**Search:** The field is not available for search.

### 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 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 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 flag for: deny_bootp

**Type**  
Bool.

Create  
The default value is False.

Search  
The field is not available for search.

**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 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.

<table>
<thead>
<tr>
<th>use_logic_filter_rules</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_ms_options</th>
</tr>
</thead>
</table>

use_ms_options
Use flag for: ms_options

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_nextserver</th>
</tr>
</thead>
</table>

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.

---

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
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<td>Type</td>
<td>Req</td>
<td>R/O</td>
<td>Base</td>
<td>Search</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>low_water_mark_reset</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mac_filter_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>member</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>ms_options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_server</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>nac_filter_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>nextserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>number_of_addresses</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>offset</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>option_filter_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>pxe_lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>recycleleases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>relay_agent_filter_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>server_association_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>unknown_clients</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_bootfile</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_bootserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_domainname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ddns_gen_hostname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_denied_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_email_list</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_enable_dhcp_thresholds</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_known_clients</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_lease_scaevnge_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_logic_filter_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ms_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_nextserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_pxe_leasetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_recycleleases</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_unknown_clients</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

### 3.159 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: record:a/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

Fields

These fields are actual members of the object; 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

aws_rte53_record_info cannot be updated.
aws_rte53_record_info cannot be written.

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

cloud_info cannot be updated.
cloud_info cannot be written.

**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

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

**creation_time**

The time of the record creation in *Epoch seconds* format.

**Type**

Timestamp.

**Search**

The field is not available for search.

**Notes**

creation_time cannot be updated.

creation_time cannot be written.

**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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

**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**

*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**

*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.

<table>
<thead>
<tr>
<th>forbid_reclamation</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ipv4addr</th>
</tr>
</thead>
</table>

**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/ZG54dFgsrDFEFfFsLzA: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 range* (default parameters: `{‘num’: 1}`)
- *the next_available_ip function call in object network* (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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    '_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

- ‘=’ (exact equality)
- ‘~=' (regular expression)
Notes
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
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
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
- `:=` (case insensitive search)
• ‘=’ (exact equality)
• ‘~=’ (regular expression)

Notes
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**

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**

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.

### 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**
view is part of the base object.
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**
zzone cannot be updated.
zzone 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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)
Notes
discovered_data.ap_name is a search-only field.

discovered_data.ap_ssid
Service set identifier (SSID) associated with Wireless Access Point.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
  - ‘=’ (exact equality)
  - ‘~=' (regular expression)

Notes
discovered_data.ap_ssid is a search-only field.

discovered_data.bridge_domain
Discovered bridge domain.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
  - ‘=’ (exact equality)
  - ‘~=' (regular expression)

Notes
discovered_data.bridge_domain is a search-only field.

discovered_data.cisco_ise_endpoint_profile
The Cisco ISE Endpoint Profile.

Type
String.

Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
discovered_data.cisco_ise_endpoint_profile is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.cisco_ise_security_group</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
</tr>
<tr>
<td>The Cisco ISE security group name.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.cisco_ise_session_state</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
</tr>
<tr>
<td>The Cisco ISE session state.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• AUTHENTICATED</td>
</tr>
<tr>
<td>• AUTHENTICATING</td>
</tr>
<tr>
<td>• DISCONNECTED</td>
</tr>
<tr>
<td>• POSTURED</td>
</tr>
<tr>
<td>• STARTED</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_session_state is a search-only field.</td>
</tr>
</tbody>
</table>
### discovered_data.cisco_ise_ssid

**The Cisco ISE SSID.**

**Type**  
String.

**Search**  
The field is available for search via  
- `:=` (case insensitive search)  
- `=` (exact equality)  
- `~=` (regular expression)

**Notes**  
discovered_data.cisco_ise_ssid is a search-only field.

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

**Notes**  
discovered_data.cmp_type is a search-only field.

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

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

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

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

Notes
discovered_data.device_port_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_port_type</th>
</tr>
</thead>
</table>

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

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

Notes
discovered_data.device_port_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_type</th>
</tr>
</thead>
</table>

discovered_data.device_type
The type of end host in vendor terminology.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.device_type is a search-only field.
**discovered_data.device_vendor**

The vendor name of the end host.

**Type**

String.

**Search**

The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**

discovered_data.device_vendor is a search-only field.

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

**Notes**

discovered_data.discovered_name is a search-only field.

**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
- `:=` (case insensitive search)
- `=` (exact equality)
discovered_data.discoverer is a search-only field.

**discovered_data.endpoint_groups**

A comma-separated list of discovered endpoint groups.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.endpoint_groups is a search-only field.

**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

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

**Notes**

discovered_data.first_discovered is a search-only field.

**discovered_data.iprg_no**

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The port redundant group number.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=' (greater than search)

**Notes**
discovered_data.iprg_no is a search-only field.

---

**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**

**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**

The date and time the IP address was last discovered in *Epoch seconds* format.

**Type**

Timestamp.

**Search**

The field is available for search via

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

**Notes**

discovered_data.last_discovered is a search-only field.

**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

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

**Notes**

discovered_data.mac_address is a search-only field.

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

**Notes**

discovered_data.mgmt_ip_address is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.netbios_name</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.netbios_name</strong></td>
</tr>
<tr>
<td>The name returned in the NetBIOS reply or the name you manually register for the discovered host.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.netbios_name is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.network_component_contact</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.network_component_contact</strong></td>
</tr>
<tr>
<td>Contact information from network component on which the IP address was discovered.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.network_component_contact is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.network_component_description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.network_component_description</strong></td>
</tr>
</tbody>
</table>
A textual description of the switch that is connected to the end device.

**Type**
String.

**Search**
The field is available for search via
- `':='` (case insensitive search)
- `=' (exact equality)
- `~=' (regular expression)

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

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

**Notes**
discovered_data.network_component_location is a search-only field.
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.network_component_model is a search-only field.

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

**Notes**
discovered_data.network_component_name is a search-only field.

**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
- `:=` (case insensitive search)
- `=` (exact equality)
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

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

**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

- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

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

**Notes**
discovered_data.network_component_type is a search-only field.

---

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

**Notes**
discovered_data.network_component_vendor is a search-only field.

---

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

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

Notes

discovered_data.os is a search-only field.

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

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.

<table>
<thead>
<tr>
<th>discovered_data.port_speed</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.port_status</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.port_type</th>
</tr>
</thead>
</table>

**discovered_data.port_type**

The type of switch port.

**Type**

String.

**Search**

The field is available for search via
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

The name of the VLAN of the switch port.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.port_vlan_name is a search-only field.

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

- ‘!=' (negative search)
- ‘=' (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

The name of the discovery task.

**Type**
String.

**Search**
The field is available for search via

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

**Notes**
discovered_data.task_name is a search-only field.

discovered_data.tenant

Discovered tenant.

**Type**
String.

**Search**
The field is available for search via

- ‘:~’ (case insensitive search)
- ‘~’ (exact equality)
- ‘~=' (regular expression)
Notes
discovered_data.tenant is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_adapter</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_adapter is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_cluster</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_cluster is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_datacenter</th>
</tr>
</thead>
</table>

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

**Notes**
discovered_data.v_datacenter is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.v_entity_name</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.v_entity_name</strong></td>
</tr>
<tr>
<td>The name of the virtual entity.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td>• ‘~=' (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.v_entity_name is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.v_entity_type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.v_entity_type</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.v_entity_type is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.v_host</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.v_host</strong></td>
</tr>
<tr>
<td>The name of the VMware server on which the virtual entity was discovered.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>
Search
The field is available for search via

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

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

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

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

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

Notes
discovered_data.vlan_port_group is a search-only field.
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.vmhost_ip_address is a search-only field.

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

Notes
discovered_data.vmhost_mac_address is a search-only field.

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

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

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

**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.

<table>
<thead>
<tr>
<th>discovered_data.vmi_ip_type</th>
</tr>
</thead>
</table>

discovered_data.vmi_ip_type
Discovered IP address type.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=' (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.vmi_ip_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vmi_is_public_address</th>
</tr>
</thead>
</table>

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**

Name of the virtual machine.

**Type**

String.

**Search**

The field is available for search via
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**Notes**

discovered_data.vmi_name is a search-only field.

**discovered_data.vmi_private_address**

Private IP address of the virtual machine.

**Type**

String.

**Search**

The field is available for search via
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**Notes**

discovered_data.vmi_private_address is a search-only field.

**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**

**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**

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**

discovered_data.vport_conf_speed is a search-only field.
**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

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

*Notes*

discovered_data.vport_link_status is a search-only field.

**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

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

*Notes*

discovered_data.vport_mac_address is a search-only field.

**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

Name of the network adapter on the virtual switch connected with the virtual machine.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
discovered_data.vport_name is a search-only field.

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
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

Notes
discovered_data.vport_speed is a search-only field.
**discovered_data.vswitch_available_ports_count**

**discovered_data.vswitch_available_ports_count**

Number 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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)

**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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_name</strong></td>
<td>Name of the virtual switch.</td>
</tr>
<tr>
<td><strong>discovered_data.vswitch_segment_id</strong></td>
<td>ID of the network segment on which the current virtual machine/vport connected to.</td>
</tr>
<tr>
<td><strong>discovered_data.vswitch_segment_name</strong></td>
<td>Name of the network segment on which the current virtual machine/vport connected to.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Search**
The field is available for search via

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

**Notes**
discovered_data.vswitch_name is a search-only field.

discovered_data.vswitch_segment_id is a search-only field.

discovered_data.vswitch_segment_name is a search-only field.
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

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

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

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

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

Notes
discovered_data.vswitch_tep_dhcp_server is a search-only field.

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_ip</strong></td>
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<tr>
<td><strong>IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>• ':=' (case insensitive search)</td>
</tr>
<tr>
<td>• '=' (exact equality)</td>
</tr>
<tr>
<td>• '~=' (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.vswitch_tep_multicast</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_multicast</strong></td>
</tr>
<tr>
<td><strong>Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>• ':=' (case insensitive search)</td>
</tr>
<tr>
<td>• '=' (exact equality)</td>
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<td>• '~=' (regular expression)</td>
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<td><strong>Notes</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>discovered_data.vswitch_tep_port_group</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_port_group</strong></td>
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<tr>
<td><strong>Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.</strong></td>
</tr>
</tbody>
</table>
Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

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

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

Notes
discovered_data.vswitch_tep_vlan is a search-only field.
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**

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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<td>N</td>
<td>N/A</td>
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<tr>
<td>cloud_info</td>
<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>comment</td>
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<tr>
<td>creation_time</td>
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<td>N</td>
<td>N/A</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>ms_ad_user_data</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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### Search-only Fields List

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<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>:= ~</td>
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<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>:= ~</td>
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<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
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<td>discovered_data.cisco_ise_session_state</td>
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</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
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<td>String</td>
<td>:= ~</td>
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<tr>
<td>discovered_data.device_model</td>
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<td>discovered_data.device_port_name</td>
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<td>:= ~</td>
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<td>discovered_data.device_vendor</td>
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<td>discovered_data.discovered_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
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<td>discovered_data.discoverer</td>
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<td>discovered_data.endpoint_groups</td>
<td>String</td>
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<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt;= &gt;</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
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<tr>
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<td>discovered_data.last_discovered</td>
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<td>discovered_data.network_component_model</td>
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<td>discovered_data.network_component_port_number</td>
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<tr>
<td>discovered_data.network_component_type</td>
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<td>discovered_data.open_ports</td>
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<td>discovered_data.port_vlan_description</td>
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<td>discovered_data.port_vlan_number</td>
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</tr>
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<tr>
<td>discovered_data.tenant</td>
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<td>discovered_data.v_adapter</td>
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<td>discovered_data.vmhost_mac_address</td>
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<td>discovered_data.vmhost_nic_names</td>
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<td>discovered_data.vmhost_subnet_cidr</td>
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<td>discovered_data.vmi_ip_type</td>
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<td>discovered_data.vmi_is_public_address</td>
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<tr>
<td>discovered_data.vmi_tenant_id</td>
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Continued on next page
Table 3.29 – continued from previous page

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<td>discovered_data.vport_link_status</td>
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<td>discovered_data.vport_macs_address</td>
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<td>discovered_data.vswitch_available_ports_count</td>
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<td>discovered_data.vswitch_ipv6_enabled</td>
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<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

Delete Arguments List

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>remove_associated_ptr</td>
<td>Bool</td>
</tr>
</tbody>
</table>

3.160 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: record:aaaa/ZG5zLjo6MQ:aaaa.wtest.foo.bar/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): ipv6addr, name, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

aws_rte53_record_info

aws_rte53_record_info

Aws Route 53 record information.

Type

A/An `Aws Route 53 Record Info struct`.

Search

The field is not available for search.

Notes

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

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

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

**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**

The discovered data for this AAAA record.

**Type**

A/An *Discovered data* struct.

**Search**

The field is not available for search.

**Notes**

discovered_data cannot be updated.
discovered_data cannot be written.

**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**

dns_name cannot be updated.
dns_name cannot be written.

**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

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

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/ZG54dfgsrDFEFsfsLzA: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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    '_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

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

Notes
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**

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**

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

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

name is part of the base object.

---

**reclaimable**

**reclaimable**
Determined if the record is reclaimable or not.

**Type**

Bool.

**Search**

The field is available for search via

- `=` (exact equality)

**Notes**

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**

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.

**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**
view is part of the base object.

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

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

**Notes**
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

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

**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

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

**Notes**
discovered_data.ap_name is a search-only field.
discovered_data.ap_ssid

Service set identifier (SSID) associated with Wireless Access Point.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.ap_ssid is a search-only field.

---

discovered_data.bridge_domain

Discovered bridge domain.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.bridge_domain is a search-only field.

---

discovered_data.cisco_ise_endpoint_profile

The Cisco ISE Endpoint Profile.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
discovered_data.cisco_ise_endpoint_profile

The Cisco ISE endpoint profile.

Type

String.

Notes

discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

The Cisco ISE security group name.

Type

String.

Search

The field is available for search via

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes

discovered_data.cisco_ise_security_group is a search-only field.

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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.cisco_ise_ssid</td>
<td>The Cisco ISE SSID.</td>
<td>String</td>
<td>• <code>:=</code> (case insensitive search)</td>
<td>discovered_data.cisco_ise_ssid is a search-only field.</td>
</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>If the IP is coming from a Cloud environment, the Cloud Management Platform type.</td>
<td>String</td>
<td>• <code>=</code> (exact equality)</td>
<td></td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>Contact information from device on which the IP address was discovered.</td>
<td>String</td>
<td>• <code>~=</code> (regular expression)</td>
<td></td>
</tr>
</tbody>
</table>
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
- `.=' (case insensitive search)
- `=' (exact equality)
- `~=' (regular expression)

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

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

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

Notes
discovered_data.device_port_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_port_type</th>
</tr>
</thead>
</table>

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

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

Notes
discovered_data.device_port_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_type</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>discovered_data.device_type</th>
</tr>
</thead>
</table>

discovered_data.device_type

The type of end host in vendor terminology.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.device_type is a search-only field.
**discovered_data.device_vendor**

The vendor name of the end host.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.device_vendor is a search-only field.

**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

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

**Notes**

discovered_data.discovered_name is a search-only field.

**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

- `:` (case insensitive search)
- `=` (exact equality)
Notes
discovered_data.discoverer is a search-only field.

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

Notes
discovered_data.duid is a search-only field.

discovered_data.endpoint_groups

A comma-separated list of discovered endpoint groups.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

Notes
discovered_data.endpoint_groups is a search-only field.

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

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

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

The date and time the IP address was last discovered in Epoch seconds format.

Type
Timestamp.

Search
The field is available for search via
- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

Notes
discovered_data.last_discovered is a search-only field.

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

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

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

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

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

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

**Notes**
discovered_data.network_component_contact is a search-only field.

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

**Notes**
discovered_data.network_component_description is a search-only field.

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

**Notes**
discovered_data.network_component_ip is a search-only field.
### 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

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

**Notes**

discovered_data.network_component_location is a search-only field.

### 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

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

**Notes**

discovered_data.network_component_model is a search-only field.

### 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

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

**Notes**

discovered_data.network_component_name is a search-only field.

### discovered_data.network_component_port_description

**discoverered_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

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

**Notes**

discoverered_data.network_component_port_description is a search-only field.

### discovered_data.network_component_port_name

**discoverered_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

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

**Notes**

discoverered_data.network_component_port_name is a search-only field.

### discovered_data.network_component_port_number

**discoverered_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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes

discovered_data.network_component_port_number is a search-only field.

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

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

Notes

discovered_data.network_component_type is a search-only field.

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

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

Notes

discovered_data.network_component_vendor is a search-only field.
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**

discovered_data.open_ports is a search-only field.

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

**Notes**
discovered_data.os is a search-only field.

**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.

<table>
<thead>
<tr>
<th>discovered_data.port_link_status</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.port_speed</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.port_status</th>
</tr>
</thead>
</table>

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

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

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

Notes
discovered_data.port_vlan_name is a search-only field.

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
- ‘!=' (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

The name of the discovery task.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

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

**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

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

**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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes
discovered_data.v_cluster is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_datacenter</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.v_datacenter is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_entity_name</th>
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</thead>
</table>

discovered_data.v_entity_name
The name of the virtual entity.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

Notes
discovered_data.v_entity_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.v_entity_type</th>
</tr>
</thead>
</table>

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

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

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

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

**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

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

**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

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

**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

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

**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

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

**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

- `!=` (negative search)
- `=` (exact equality)
• ‘<=' (less than search)
• ‘>=' (greater than search)

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

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

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

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

**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**

**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**

**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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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

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

**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

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

**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
**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

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

**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

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

**Notes**

discovered_data.vport_speed is a search-only field.
**discovered_data.vswitch_available_ports_count**

**discovered_data.vswitch_available_ports_count**

Number 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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**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**

Name of the virtual switch.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.vswitch_name is a search-only field.

**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**

Name of the network segment on which the current virtual machine/vport connected to.

**Type**

String.

**Search**

The field is available for search via

- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
discovered_data.vswitch_segment_name is a search-only field.

**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

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

**Notes**

discovered_data.vswitch_segment_port_group is a search-only field.

**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

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

**Notes**

discovered_data.vswitch_segment_type is a search-only field.

**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
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

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

**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 switch.**

**Type**

String.

**Search**

The field is available for search via

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

**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.**
**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

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

**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

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

**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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
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<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
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</tr>
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<td>String</td>
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<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_ssl</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_location</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_model</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_port_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_port_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_vendor</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.discovered_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.duid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.endpoint_groups</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
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<td>discovered_data.iprg_state</td>
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</tr>
<tr>
<td>discovered_data.iprg_type</td>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
<td>Timestamp</td>
<td>! &lt; = &gt;</td>
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<tr>
<td>discovered_data.mac_address</td>
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<tr>
<td>discovered_data.mgmt_ip_address</td>
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</tr>
<tr>
<td>discovered_data.netbios_name</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.network_component_contact</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.network_component_description</td>
<td>String</td>
<td>: = ~</td>
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<tr>
<td>discovered_data.network_component_ip</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.network_component_location</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.network_component_model</td>
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<td>: = ~</td>
</tr>
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<td>discovered_data.network_component_name</td>
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<td>: = ~</td>
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<tr>
<td>discovered_data.network_component_port_description</td>
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<td>: = ~</td>
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<tr>
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<tr>
<td>discovered_data.network_component_type</td>
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<td>discovered_data.network_component_vendor</td>
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<td>: = ~</td>
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<td>discovered_data.open_ports</td>
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<td>discovered_data.os</td>
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<tr>
<td>discovered_data.port_duplex</td>
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<tr>
<td>discovered_data.port_link_status</td>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>String</td>
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<tr>
<td>discovered_data.port_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_type</td>
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<td>: = ~</td>
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<tr>
<td>discovered_data.port_vlan_description</td>
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</tr>
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<td>: = ~</td>
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<tr>
<td>discovered_data.port_vlan_number</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
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<td>discovered_data.task_name</td>
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<td>discovered_data.v_adapter</td>
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<tr>
<td>discovered_data.v_cluster</td>
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<td>discovered_data.v_datacenter</td>
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<td>discovered_data.vlan_port_group</td>
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<tr>
<td>discovered_data.vmhost_ip_address</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_name</td>
<td>String</td>
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<td>discovered_data.vmhost_nic_names</td>
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<tr>
<td>discovered_data.vmhost_subnet_cidr</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>: = ~</td>
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<tr>
<td>discovered_data.vmi_is_public_address</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_name</td>
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</tr>
<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
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Continued on next page
Table 3.30 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
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<th>Search</th>
</tr>
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<tr>
<td>discovered_data.vmi_tenant_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
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<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

Delete Arguments List

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>remove_associated_ptr</td>
<td>Bool</td>
</tr>
</tbody>
</table>

3.161 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: record:cname/ZG5zLmJpbmRfY25h:some.name.com/myview

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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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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

- `:` (case insensitive search)
- `=` (exact equality)
Notes
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**
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

Determined 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**

Determined 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**

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**
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**
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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_queried</td>
<td>The time of the last DNS query in <em>Epoch seconds</em> format.</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> Timestamp.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is not available for search.</td>
</tr>
<tr>
<td></td>
<td><strong>Notes</strong> last_queried cannot be updated. last_queried cannot be written.</td>
</tr>
<tr>
<td>name</td>
<td>The name for a CNAME record in <em>FQDN</em> format. This value can be in unicode format. Regular expression search is not supported for unicode values.</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> String.</td>
</tr>
<tr>
<td></td>
<td><strong>Create</strong> The field is required on creation.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td></td>
<td>• ‘~=’ (regular expression)</td>
</tr>
<tr>
<td></td>
<td><strong>Notes</strong> name is part of the base object.</td>
</tr>
<tr>
<td>reclaimable</td>
<td>Determines if the record is reclaimable or not.</td>
</tr>
<tr>
<td></td>
<td><strong>Type</strong> Bool.</td>
</tr>
<tr>
<td></td>
<td><strong>Search</strong> The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
</tbody>
</table>
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
shared_record_group cannot be updated.
shared_record_group cannot be written.

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 flag for: ttl

Type
Bool.

Create
The default value is False.
Search
The field is not available for search.

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
view is part of the base object.

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
zone cannot be updated.
zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
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<tbody>
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<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
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<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
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<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ddns_principal</td>
<td>String</td>
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<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.162 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 a DHCID record object reference has the following components:

- Name of the record
- Name of the view

Example: record:dhcid/ZG5zLmJpbm:h1.wtest.foo.bar/external

### Restrictions

The object does not support the following operations:

- Create (insert)
- Modify (update)

The object cannot be managed on the 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, view.

---

**creation_time**

*creation_time*

The creation time of the record.

**Type**

Timestamp.

**Search**

The field is not available for search.

**Notes**

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**

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

**Notes**
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**
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=’ (regular expression)
Notes
name is part of the base object.
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).
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**
use_ttl cannot be updated.
use_ttl 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
view is part of the base object.
view cannot be updated.
view cannot be written.

### 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**
zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dhcid</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>: = ~</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.163 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: record:dname/ZG5zLmJpsaG9zdA:us.example.com/default.external

Restrictions

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>target</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

**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
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**

The GSS-TSIG principal that owns this record.

**Type**
String.

**Create**
The default value is *empty*.

**Search**
The field is available for search via
- `':='` (case insensitive search)
- `=' (exact equality)
- `'~='` (regular expression)

**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**

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**
The name for 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**
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**
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**

Determines if the reclamation is allowed for the record.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**last_queried**

The time of the last DNS query in *Epoch seconds* format.

**Type**

Timestamp.

**Search**

The field is not available for search.

**Notes**

last_queried cannot be updated.

last_queried cannot be written.

**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

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

**Notes**

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**
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**
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
Notes
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.

**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**

view is part of the base object.

view cannot be updated.

---

### 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**

zone cannot be updated.

zone cannot be written.

---

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
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</tr>
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<td>N</td>
<td>Y</td>
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<td>=</td>
</tr>
</tbody>
</table>
3.164 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: record:dnskey/ZG5zLmJpsaG9zdA:us.example.com/default.external

Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on the 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, view.

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

**Notes**
cannot be updated.
cannot be written.

**creation_time**

**creation_time**
The creation time of the record.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
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**
creator cannot be updated.
creator cannot be written.

dns_name

dns_name
The name for 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**
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
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
  • ‘=’ (exact equality)
  • ‘<=’ (less than search)
  • ‘>=’ (greater than search)

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

**Notes**
name is part of the base object.
name cannot be updated.
name cannot be written.

```plaintext
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
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
public_key cannot be updated.
public_key cannot be written.

```plaintext
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*).
ttl cannot be updated.
ttl cannot be written.

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
use_ttl cannot be updated.
use_ttl cannot be written.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

**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**
view is part of the base object.
view cannot be updated.
view cannot be written.

<table>
<thead>
<tr>
<th>zone</th>
</tr>
</thead>
</table>

**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
zone cannot be updated.
zzone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>algorithm</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>flags</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>key_tag</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>#: = &gt;</td>
</tr>
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<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>public_key</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.165 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: record:ds/ZG5zLmJpsaG9zdA:us.example.com/default.external
**Restrictions**

The object does not support the following operations:

- Create (insert)
- Delete
- Modify (update)
- Scheduling

The object cannot be managed on the 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, view.

**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**

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**

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

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

**Notes**

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**

creation_time cannot be updated.
creation_time cannot be written.
creator

The record creator.

Type
String.

Valid values are:

- SYSTEM

Search

The field is available for search via

- `=` (exact equality)

Notes

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

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
Notes
digest_type cannot be updated.
digest_type cannot be written.

<table>
<thead>
<tr>
<th><strong>dns_name</strong></th>
</tr>
</thead>
</table>

<dl>
  <dt><strong>dns_name</strong></dt>
  <dd>The name for the DS record in punycode format.</dd>
  <dt>Type</dt>
  <dd>String.</dd>
  <dt>Search</dt>
  <dd>The field is not available for search.</dd>
</dl>

Notes
dns_name cannot be updated.
dns_name cannot be written.

<table>
<thead>
<tr>
<th><strong>key_tag</strong></th>
</tr>
</thead>
</table>

<dl>
  <dt><strong>key_tag</strong></dt>
  <dd>The key tag value that is used to determine which key to use to verify signatures.</dd>
  <dt>Type</dt>
  <dd>Unsigned integer.</dd>
  <dt>Search</dt>
  <dd>The field is available for search via</dd>
  <ul>
    <li>`=' (exact equality)</li>
    <li>`<=` (less than search)</li>
    <li>`=>` (greater than search)</li>
  </ul>
</dl>

Notes
key_tag cannot be updated.
key_tag cannot be written.

<table>
<thead>
<tr>
<th><strong>last_queried</strong></th>
</tr>
</thead>
</table>

<dl>
  <dt><strong>last_queried</strong></dt>
</dl>
The time of the last DNS query in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_queried cannot be updated.
last_queried cannot be written.

---

**name**

The name of the DNS DS record in *FQDN* format.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

**Notes**
name is part of the base object.
name cannot be updated.
name cannot be written.

---

**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*).
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**

use_ttl cannot be updated.

use_ttl 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**

view is part of the base object.

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
zone cannot be updated.
zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>algorithm</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>cloud_info</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>digest</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>N</td>
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</tr>
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<td>N/A</td>
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<td>key_tag</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ttl</td>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>use_ttl</td>
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<td>Y</td>
<td>N</td>
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<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.166 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: record:dtclbdn/ZG5zLm5ldHdvcmtdmldyQxMTk:DTCLBDNRecord1

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 the 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, view, zone.

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

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

Notes
comment is part of the base object.
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)
### 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**

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**
**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

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

**Notes**

name is part of the base object.

name cannot be updated.

name cannot be written.

---

**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

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

**Notes**

pattern cannot be updated.

pattern cannot be written.
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

view is part of the base object.
view cannot be updated.
view cannot be written.

zone

The name of the zone in which the record resides.

Type

String.

Search

The field is available for search via

- ‘=’ (exact equality)

Notes

zone is part of the base object.
zone cannot be updated.
zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>pattern</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>
3.167 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: record:host/ZG5zLmhvc3QkLj9kZWZhd3QuaDE:some.name.com/default

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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addrs</td>
<td>The field is required only for an IPv4 object.</td>
</tr>
<tr>
<td>ipv6addrs</td>
<td>The field is required only for an IPv6 object.</td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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.

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

---

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

---

**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
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

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

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

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**

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**

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**

dns_name cannot be updated.
dns_name cannot be written.

**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

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

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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using JSON to access the WAPI.

**Create**

The field is required only for an IPv4 object.

**Search**

The field is not available for search.

**Notes**

ipv4addrs is part of the base object.

### 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, which will try to respectively add or remove the specified value(s) to the list. An error will be returned if adding already existing value(s) or if removing non existent one(s). Note that this is supported only when using JSON to access the WAPI.
Create
The field is required only for an IPv6 object.

Search
The field is not available for search.

Notes
ipv6addrs is part of the base object.

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>last_queried</strong></td>
</tr>
</tbody>
</table>

**last_queried**
The time of the last DNS query in *Epoch seconds* format.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_queried cannot be updated.
last_queried cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ms_ad_user_data</strong></td>
</tr>
</tbody>
</table>

**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
ms_ad_user_data cannot be updated.
ms_ad_user_data cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
</tr>
</tbody>
</table>

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
</table>

**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**
network_view cannot be updated.

<table>
<thead>
<tr>
<th>restart_if_needed</th>
</tr>
</thead>
</table>

**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

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_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

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.

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

**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**
view is part of the base object.

<table>
<thead>
<tr>
<th>zone</th>
</tr>
</thead>
</table>

**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
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
  • ‘!=’ (negative search)
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

**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
  • ‘!=’ (negative search)
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)
Notes
ipv4addr is a search-only field.

**ipv6addr**

The *IPv6 Address* to search for.

**Type**
String.

**Search**

The field is available for search via
- ‘!=' (negative search)
- ':=' (case insensitive search)
- '=' (exact equality)
- '~=' (regular expression)

**Notes**

ipv6addr is a search-only field.

**mac**

The MAC address to search for.

**Type**
String.

**Search**

The field is available for search via
- ‘!=' (negative search)
- ':=' (case insensitive search)
- '=' (exact equality)
- '~=' (regular expression)

**Notes**

mac is a search-only field.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>aliases</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_telnet</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
### Table 3.31 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>cli_credentials</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>configure_for_dns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>device_description</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>device_location</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>device_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>device_vendor</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_aliases</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_immediate_discovery</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv4addrs</td>
<td>[obj]</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6addrs</td>
<td>[obj]</td>
<td>Y*</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>restart_if_needed</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rrset_order</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmp3_credential</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>snmp_credential</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_cli_credentials</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_snmp3_credential</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_snmp_credential</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

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

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>alias</td>
<td>String</td>
<td>! : = ~</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>! : = ~</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>! : = ~</td>
</tr>
<tr>
<td>mac</td>
<td>String</td>
<td>! : = ~</td>
</tr>
</tbody>
</table>

### 3.168 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: record:host_ipv4addr/ZG5zvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
</tbody>
</table>

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**
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**

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**

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**

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**

host is part of the base object.
host cannot be updated.
host cannot be written.

**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**
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 range (default parameters: {'num': 1})
- the next_available_ip function call in object network (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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>
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:

```json
{
    '_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
- ‘=’ (exact equality)
- ‘~’ (regular expression)

Notes
ipv4addr is part of the base object.

```bash
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
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**
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
• ‘=’ (exact equality)
• ‘~=’ (regular expression)

Notes
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**

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
network cannot be updated.
network cannot be written.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
</table>

**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
network_view cannot be updated.
network_view cannot be written.

<table>
<thead>
<tr>
<th>nextserver</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>options</th>
</tr>
</thead>
</table>

**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**

The field 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 flag for: bootfile

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**use_bootserver**

Use flag for: bootserver

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**use_denied_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**

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_clientRequestedOptions

Use flag for: ignore_client_requested_options
Type
Bool.
Create
The default value is False.
Search
The field is not available for search.

use_logicFilterRules

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 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.

---

**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

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

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

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

**Notes**
discovered_data.ap_ssid 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
- `:=` (case insensitive search)
- `=` (exact equality)
discovered_data.cisco_ise_endpoint_profile

The Cisco ISE Endpoint Profile.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

The Cisco ISE security group name.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_security_group is a search-only field.

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

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

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

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
### 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

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

**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

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

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

**Notes**
discovered_data.device_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_vendor</th>
</tr>
</thead>
</table>

discovered_data.device_vendor
The vendor name of the end host.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.device_vendor is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.discovered_name</th>
</tr>
</thead>
</table>

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

**Notes**
discovered_data.discovered_name is a search-only field.
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
- `‘:=’` (case insensitive search)
- `‘=’` (exact equality)
- `‘~=`` (regular expression)

Notes
discovered_data.discoverer is a search-only field.

discovered_data.endpoint_groups

A comma-separated list of discovered endpoint groups.

Type
String.

Search
The field is available for search via
- `‘:=’` (case insensitive search)
- `‘=’` (exact equality)
- `‘~=`` (regular expression)

Notes
discovered_data.endpoint_groups is a search-only field.

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
- `‘!’` (negative search)
- `‘=’` (exact equality)
Notes
discovered_data.first_discovered is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.iprg_no</th>
</tr>
</thead>
</table>

**discovered_data.iprg_no**
The port redundant group number.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
discovered_data.iprg_no is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.iprg_state</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>discovered_data.iprg_type</th>
</tr>
</thead>
</table>

**discovered_data.iprg_type**
The port redundant group type.

**Type**
String.
**Search**
The field is available for search via
- ‘!’ (negative search)
- ‘=’ (exact equality)

**Notes**
discovered_data.iprg_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.last_discovered</th>
</tr>
</thead>
</table>

**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
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.last_discovered is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.mac_address</th>
</tr>
</thead>
</table>

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

**Notes**
discovered_data.mac_address is a search-only field.
**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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.mgmt_ip_address is a search-only field.

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

**Notes**
discovered_data.netbios_name is a search-only field.

**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
- `:=` (case insensitive search)
- `=` (exact equality)
discovered_data.network_component_contact is a search-only field.

**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

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

**Notes**

discovered_data.network_component_description is a search-only field.

**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

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

**Notes**

discovered_data.network_component_ip is a search-only field.

**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
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

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

**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

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

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

**Notes**
discovered_data.network_component_port_description is a search-only field.

---

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

**Notes**
discovered_data.network_component_port_name is a search-only field.

---

**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
- ‘!=’ (negative search)
- ‘=' (exact equality)
- ‘<=' (less than search)
- ‘>=' (greater than search)
Notes
discovered_data.network_component_port_number is a search-only field.

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

Notes
discovered_data.network_component_type is a search-only field.

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

Notes
discovered_data.network_component_vendor is a search-only field.

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

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

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

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

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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.port_link_status</strong></td>
<td>The link status of the switch port connected to the end device. Indicates whether it is connected.</td>
<td>String.</td>
<td>• ‘=’ (exact equality)</td>
<td>discovered_data.port_link_status is a search-only field.</td>
</tr>
<tr>
<td><strong>discovered_data.port_speed</strong></td>
<td>The interface speed, in Mbps, of the switch port.</td>
<td>String.</td>
<td>• ‘=’ (exact equality)</td>
<td>discovered_data.port_speed is a search-only field.</td>
</tr>
<tr>
<td><strong>discovered_data.port_status</strong></td>
<td>The operational status of the switch port. Indicates whether the port is up or down.</td>
<td>String.</td>
<td>• ‘=’ (exact equality)</td>
<td>discovered_data.port_status is a search-only field.</td>
</tr>
</tbody>
</table>
**discovered_data.port_type**

The type of switch port.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.port_type is a search-only field.

**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

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

**Notes**

discovered_data.port_vlan_description is a search-only field.

**discovered_data.port_vlan_name**

The name of the VLAN of the switch port.

**Type**

String.

**Search**

The field is available for search via

- `':='` (case insensitive search)
- `'='` (exact equality)
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
- `!` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

Notes
discovered_data.port_vlan_number is a search-only field.

discovered_data.task_name

The name of the discovery task.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.task_name is a search-only field.

discovered_data.tenant

The tenant of the device.
Discovered tenant.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)

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

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

**Notes**
discovered_data.v_cluster is a search-only field.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.v_datacenter</strong></td>
<td>The name of the vSphere datacenter or container to which the virtual entity belongs.</td>
</tr>
<tr>
<td><strong>discovered_data.v_entity_name</strong></td>
<td>The name of the virtual entity.</td>
</tr>
<tr>
<td><strong>discovered_data.v_entity_type</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
discovered_data.v_entity_type is a search-only field.

**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

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

**Notes**

discovered_data.v_host is a search-only field.

**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

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

**Notes**

discovered_data.v_switch is a search-only field.

**discovered_data.vlan_port_group**

Port group which the virtual machine belongs to.

**Type**

String.

**Search**

The field is available for search via
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**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.
**discovered_data.vmhost_name**

**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”.

**discovered_data.vmhost_subnet_cidr**

CIDR subnet of the physical node on which the virtual machine is hosted.

**Notes**

discovered_data.vmhost_name is a search-only field.

discovered_data.vmhost_nic_names is a search-only field.

discovered_data.vmhost_subnet_cidr is available for search via

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

**Notes**

discovered_data.vmhost_nic_names is a search-only field.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

Name of the virtual machine.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.vmi_name is a search-only field.

discovered_data.vmi_private_address

Private IP address of the virtual machine.

Type
String.

Search
The field is available for search via

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

Notes
discovered_data.vmi_private_address is a search-only field.

discovered_data.vmi_tenant_id

ID of the tenant which virtual machine belongs to.

Type
String.

Search
The field is available for search via
discovered_data.vmi_tenent_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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**Notes**

discovered_data.vport_conf_speed is a search-only field.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>discovered_data.vport_link_status</code></td>
<td>Link status of the network adapter on the virtual switch where the virtual machine connected to.</td>
<td>String.</td>
<td>':=', '='</td>
<td><code>discovered_data.vport_link_status</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vport_mac_address</code></td>
<td>MAC address of the network adapter on the virtual switch where the virtual machine connected to.</td>
<td>String.</td>
<td>':=', '='</td>
<td><code>discovered_data.vport_mac_address</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.vport_mode</code></td>
<td>Actual mode of the network adapter on the virtual switch where the virtual machine connected to.</td>
<td>String.</td>
<td></td>
<td>Valid values are: Full-duplex, Half-duplex, Unknown</td>
</tr>
</tbody>
</table>
Search
The field is available for search via
• ‘=’ (exact equality)

Notes
discovered_data.vport_mode is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vport_name</th>
</tr>
</thead>
</table>

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

Notes
discovered_data.vport_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.vport_speed</th>
</tr>
</thead>
</table>

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=' (greater than search)

Notes
discovered_data.vport_speed is a search-only field.
**discovered_data.vswitch_available_ports_count**

**discovered_data.vswitch_available_ports_count**

Number 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

- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_name</strong></td>
<td>Name of the virtual switch.</td>
</tr>
<tr>
<td><strong>discovered_data.vswitch_segment_id</strong></td>
<td>ID of the network segment on which the current virtual machine/vport connected to.</td>
</tr>
<tr>
<td><strong>discovered_data.vswitch_segment_name</strong></td>
<td>Name of the network segment on which the current virtual machine/vport connected to.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Search**
The field is available for search via
- `?:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.vswitch_name is a search-only field.
discovered_data.vswitch_segment_id is a search-only field.
discovered_data.vswitch_segment_name is a search-only field.
discovered_data.vswitch_segment_name is a search-only field.

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

**Notes**
discovered_data.vswitch_segment_port_group is a search-only field.

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

**Notes**
discovered_data.vswitch_segment_type is a search-only field.

**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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes
discovered_data.vswitch_tep_dhcp_server is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_ip</strong></td>
<td>IP address of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Search**
The field is available for search via
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**Notes**
discovered_data.vswitch_tep_ip is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_multicast</strong></td>
<td>Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Search**
The field is available for search via
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**Notes**
discovered_data.vswitch_tep_multicast is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vswitch_tep_port_group</strong></td>
<td>Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.</td>
</tr>
</tbody>
</table>

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Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.vswitch_tep_port_group is a search-only field.

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

Notes
discovered_data.vswitch_tep_type is a search-only field.

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

Notes
discovered_data.vswitch_tep_vlan is a search-only field.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>bootfile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>configure_for_dhcp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovered_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_pxe_lease_time</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>host</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ignore_client_requested_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~N/A</td>
</tr>
<tr>
<td>is_invalid_mac</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>logic_filter_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>match_client</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~N/A</td>
</tr>
<tr>
<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>~N/A</td>
</tr>
<tr>
<td>nextserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>pxe Lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>reserved_interface</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootfile</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Table 3.32 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_for_ea_inheritance</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ignore_client_requested_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_logic_filter_rules</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_nextserver</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_pxe_lease_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

#### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
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</tr>
<tr>
<td>discovered_data.cisco_ise_ssid</td>
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</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_location</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_model</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_port_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_port_type</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_vendor</td>
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<td>:= ~</td>
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<tr>
<td>discovered_data.discovered_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.endpoint_groups</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_state</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.iprg_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
<td>Timestamp</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.mac_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.mgmt_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.netbios_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_ip</td>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.network_component_location</td>
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<td>discovered_data.network_component_model</td>
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<td>discovered_data.network_component_port_description</td>
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<tr>
<td>discovered_data.network_component_port_number</td>
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<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.network_component_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_vendor</td>
<td>String</td>
<td>:= ~</td>
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</tbody>
</table>

Continued on next page
Table 3.33 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.open_ports</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.os</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.port_duplex</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_link_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_description</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_number</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.task_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.tenant</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_adapter</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_cluster</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_datacenter</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.v_host</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_switch</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vlan_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_nic_names</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_subnet_cidr</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_is_public_address</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_tenant_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

Continued on next page
### Table 3.33 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_vlan</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.169 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: record:host_ipv6addr/ZG5zvc3RjkuMC4xLg:abcd::/some.name.com/default

#### 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6addr</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv6prefix</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv6prefix_bits</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>
### 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**
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
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
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

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

**Notes**

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**
host is part of the base object.
host cannot be updated.
host cannot be written.

<table>
<thead>
<tr>
<th><strong>ipv6addr</strong></th>
</tr>
</thead>
</table>

**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:
<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

Notes

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

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

last_queried

The time of the last DNS query in Epoch seconds format.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_queried cannot be updated.
last_queried cannot be written.

match_client
Set this to ‘DUID’ to assign the IP address to the selected host, provided that the DUID of the requesting host matches
the DUID 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 *DUID*.

**Search**

The field is not available for search.

---

**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**

- *ms_ad_user_data* cannot be updated.
- *ms_ad_user_data* cannot be written.

---

**network**

The network of the host address, in *FQDN/CIDR* format.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

- network cannot be updated.
- network cannot be written.

---

**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**

network_view cannot be updated.

network_view cannot be written.

---

**options**

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).

<table>
<thead>
<tr>
<th>reserved_interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>reserved_interface</td>
</tr>
<tr>
<td>The reference to the reserved interface to which the device belongs.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>This field supports nested return fields as described here.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_domain_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_domain_name</td>
</tr>
<tr>
<td>Use flag for: domain_name</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_domain_name_servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>use_domain_name_servers</td>
</tr>
<tr>
<td>Use flag for: domain_name_servers</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
### 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_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.

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 IP address of Wireless Access Point.

Type
String.

Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

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

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

**Notes**  
discovered_data.ap_ssid 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  
- ‘:=’ (case insensitive search)  
- ‘=’ (exact equality)
discovered_data.cisco_ise_endpoint_profile

The Cisco ISE Endpoint Profile.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_endpoint_profile is a search-only field.

discovered_data.cisco_ise_security_group

The Cisco ISE security group name.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_security_group is a search-only field.

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

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

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

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

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

**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

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

**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
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

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

**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

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

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

**Notes**
discovered_data.device_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.device_vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
**discovered_data.device_vendor**
The vendor name of the end host.

**Type**
String.

**Search**
The field is available for search via
- `':='` (case insensitive search)
- `'=='` (exact equality)
- `'~='` (regular expression)

**Notes**
discovered_data.device_vendor is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.discovered_name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
**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
- `':='` (case insensitive search)
- `'=='` (exact equality)
- `'~='` (regular expression)

**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

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

**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

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

**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

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

**Notes**

discovered_data.endpoint_groups is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.first_discovered</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.first_discovered</strong></td>
</tr>
<tr>
<td>The date and time the IP address was first discovered in <em>Epoch seconds</em> format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>!=</code> (negative search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>&lt;=</code> (less than search)</td>
</tr>
<tr>
<td>- <code>&gt;=</code> (greater than search)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.first_discovered is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.iprg_no</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.iprg_no</strong></td>
</tr>
<tr>
<td>The port redundant group number.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>!=</code> (negative search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>&lt;=</code> (less than search)</td>
</tr>
<tr>
<td>- <code>&gt;=</code> (greater than search)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.iprg_no is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.iprg_state</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.iprg_state</strong></td>
</tr>
</tbody>
</table>
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
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.last_discovered is a search-only field.
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.mac_address is a search-only field.

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

**Notes**
discovered_data.mgmt_ip_address is a search-only field.

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

**Notes**
discovered_data.netbios_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.network_component_contact</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.network_component_contact</strong></td>
</tr>
<tr>
<td>Contact information from network component on which the IP address was discovered.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.network_component_contact is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.network_component_description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.network_component_description</strong></td>
</tr>
<tr>
<td>A textual description of the switch that is connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.network_component_description is a search-only field.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.network_component_ip</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.network_component_ip</strong></td>
</tr>
</tbody>
</table>
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
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

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

**Notes**

discovered_data.network_component_model is a search-only field.
**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
discovered_data.network_component_name is a search-only field.

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

**Notes**
discovered_data.network_component_port_description is a search-only field.

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

**Notes**
discovered_data.network_component_port_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_port_number</th>
</tr>
</thead>
</table>

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
- ‘!=' (negative search)
- ‘=' (exact equality)
- ‘<=' (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.network_component_port_number is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_type</th>
</tr>
</thead>
</table>

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

**Notes**
discovered_data.network_component_type is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_vendor</th>
</tr>
</thead>
</table>

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

**Notes**
discovered_data.network_component_vendor is a search-only field.

---

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

**Notes**
discovered_data.open_ports is a search-only field.

---

**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
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

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

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

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

The type of switch port.
Type
String.
Search
The field is available for search via
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=’ (regular expression)

Notes
discovered_data.port_type is a search-only field.

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
discovered_data.port_vlan_name

The name of the VLAN of the switch port.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.port_vlan_name is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.port_vlan_number</th>
</tr>
</thead>
</table>

The ID of the VLAN of the switch port.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- `!` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

**Notes**
discovered_data.port_vlan_number is a search-only field.
**discovered_data.task_name**

The name of the discovery task.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

`discovered_data.task_name` is a search-only field.

---

**discovered_data.tenant**

Discovered tenant.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

`discovered_data.tenant` is a search-only field.

---

**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

- `:` (case insensitive search)
- `=` (exact equality)
**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

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

**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

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

**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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

Notes
discovered_data.v_entity_name is a search-only field.

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

The name of the VMware server on which the virtual entity was discovered.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

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

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

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

**Notes**

discovered_data.vmhost_ip_address is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vmhost_mac_address</strong></th>
</tr>
</thead>
</table>

**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

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

**Notes**

discovered_data.vmhost_mac_address is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vmhost_name</strong></th>
</tr>
</thead>
</table>

**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

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

**Notes**

discovered_data.vmhost_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vmhost_nic_names</strong></th>
</tr>
</thead>
</table>

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

**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
- `!=` (negative search)
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

**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 IP address type.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
discovered_data.vmi_ip_type is a search-only field.

---

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

Name of the virtual machine.

**Type**
String.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
### Notes

discovered_data.vmi_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vmi_private_address</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vmi_private_address</strong></td>
</tr>
<tr>
<td>Private IP address of the virtual machine.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>- <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>discovered_data.vmi_private_address is a search-only field.</td>
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</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.vmi_tenant_id</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>discovered_data.vmi_tenant_id</strong></td>
</tr>
<tr>
<td>ID of the tenant which virtual machine belongs to.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>- <code>=</code> (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
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</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.vport_conf_mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vport_conf_mode</strong></td>
</tr>
<tr>
<td>Configured mode of the network adapter on the virtual switch where the virtual machine connected to.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>- Full-duplex</td>
</tr>
<tr>
<td>- Half-duplex</td>
</tr>
</tbody>
</table>
• 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

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
• ‘!=’ (negative search)
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
discovered_data.vport_conf_speed is a search-only field.

---

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

Notes
discovered_data.vport_link_status is a search-only field.
**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

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

**Notes**

discovered_data.vport_mac_address is a search-only field.

**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**

Name of the network adapter on the virtual switch connected with the virtual machine.

**Type**

String.

**Search**

The field is available for search via
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

• `!=` (negative search)
• `=` (exact equality)
• `<=` (less than search)
• `>=` (greater than search)

Notes
discovered_data.vport_speed is a search-only field.

**discovered_data.vswitch_available_ports_count**

discovered_data.vswitch_available_ports_count

*Number 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

• `!=` (negative search)
• `=` (exact equality)
• `<=` (less than search)
• `>=` (greater than search)

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

**Notes**
discovered_data.vswitch_name is a search-only field.
### `discovered_data.vswitch_segment_id`

**ID of the network segment on which the current virtual machine/vport connected to.**

**Type**
- String.

**Search**
- `='` (exact equality)

**Notes**
- `discovered_data.vswitch_segment_id` is a search-only field.

### `discovered_data.vswitch_segment_name`

**Name of the network segment on which the current virtual machine/vport connected to.**

**Type**
- String.

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

**Notes**
- `discovered_data.vswitch_segment_name` is a search-only field.

### `discovered_data.vswitch_segment_port_group`

**Port group of the network segment on which the current virtual machine/vport connected to.**

**Type**
- String.

**Search**
- `='` (exact equality)
- `':='` (case insensitive search)
- `~=='` (regular expression)
discovered_data.vswitch_segment_port_group is a search-only field.

**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

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

Notes

discovered_data.vswitch_segment_type is a search-only field.

**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

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

Notes

discovered_data.vswitch_tep_dhcp_server is a search-only field.

**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
discovered_data.vswitch_tep_multicast

Muticast address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.vswitch_tep_multicast is a search-only field.

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

Notes
discovered_data.vswitch_tep_port_group is a search-only field.

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

**Notes**
discovered_data.vswitch_tep_type is a search-only field.

---

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

**Notes**
discovered_data.vswitch_tep_vlan is a search-only field.

---

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.

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<tr>
<th>Field</th>
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<th>Base</th>
<th>Search</th>
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<td>N/A</td>
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<td>Bool</td>
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<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>discover_now_status</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>struct</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>domain_name_servers</td>
<td>[String]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>duid</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>host</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
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<td>N</td>
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<td>= ~</td>
</tr>
<tr>
<td>ipv6prefix</td>
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<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
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<td>N</td>
<td>N</td>
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<td>N</td>
<td>N/A</td>
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<td>N</td>
<td>N/A</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>options</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
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<td>Bool</td>
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<td>N/A</td>
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<td>use_preferred_lifetime</td>
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<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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</tbody>
</table>

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

**Search-only Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
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</tr>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
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</tr>
<tr>
<td>discovered_data.cisco_ise_ssid</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.device_location</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.device_model</td>
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<tr>
<td>discovered_data.device_port_name</td>
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<td>discovered_data.device_port_type</td>
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</tr>
<tr>
<td>discovered_data.device_vendor</td>
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</tr>
<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.duid</td>
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<td>: = ~</td>
</tr>
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<td>discovered_data.endpoint_groups</td>
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</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.iprg_no</td>
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</tr>
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<td>=</td>
</tr>
<tr>
<td>discovered_data.last_discovered</td>
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</tr>
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<td>: = ~</td>
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<tr>
<td>discovered_data.network_component_contact</td>
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<td>discovered_data.network_component_ip</td>
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<td>discovered_data.network_component_model</td>
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<td>discovered_data.network_component_name</td>
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<tr>
<td>discovered_data.network_component_port_number</td>
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<td>! &lt; =&gt;</td>
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<td>discovered_data.port_status</td>
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</tr>
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<td>discovered_data.port_type</td>
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<td>discovered_data.port_vlan_description</td>
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<td>: = ~</td>
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<tr>
<td>discovered_data.port_vlan_number</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.task_name</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.tenant</td>
<td>String</td>
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</tr>
<tr>
<td>discovered_data.v_adapter</td>
<td>String</td>
<td>: = ~</td>
</tr>
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<td>discovered_data.v_cluster</td>
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<td>discovered_data.v_datacenter</td>
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<td>discovered_data.v_host</td>
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<tr>
<td>discovered_data.v_switch</td>
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<tr>
<td>discovered_data.vlan_port_group</td>
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<tr>
<td>discovered_data.vmhost_ip_address</td>
<td>String</td>
<td>: = ~</td>
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</table>
Table 3.34 – continued from previous page

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<tr>
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<th>Type</th>
<th>Search</th>
</tr>
</thead>
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<td>discovered_data.vmhost_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_nic_names</td>
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</tr>
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<td>discovered_data.vmhost_subnet_cidr</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_is_public_address</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_tenant_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_vlan</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.170 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: record:mx/ZG5zLmhvc3RjkuMC4xLg:some.name.com/myview
**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`, `view`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>mail_exchanger</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
</tbody>
</table>

**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**

`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**

`cloud_info` cannot be updated.

`cloud_info` cannot be written.
**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

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

**creation_time**

The time of the record creation in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**

creation_time cannot be updated.
creation_time cannot be written.

**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 \textit{STATIC}.

Search
The field is available for search via
\begin{itemize}
\item `=` (exact equality)
\end{itemize}

\begin{tabular}{|l|}
\hline
\textbf{ddns\_principal} \\
\hline
\end{tabular}

\textbf{ddns\_principal}
The GSS-TSIG principal that owns this record.

Type
String.

Create
The default value is \textit{empty}.

Search
The field is available for search via
\begin{itemize}
\item `:=` (case insensitive search)
\item `=` (exact equality)
\item `~=` (regular expression)
\end{itemize}

\begin{tabular}{|l|}
\hline
\textbf{ddns\_protected} \\
\hline
\end{tabular}

\textbf{ddns\_protected}
Determines if the DDNS updates for this record are allowed or not.

Type
Bool.

Create
The default value is \textit{False}.

Search
The field is not available for search.

\begin{tabular}{|l|}
\hline
\textbf{disable} \\
\hline
\end{tabular}

\textbf{disable}
Determines if the record is disabled or not. False means that the record is enabled.

Type
Bool.

Create
The default value is \textit{False}.
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.

Notes
dns_mail_exchanger cannot be updated.
dns_mail_exchanger cannot be written.

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.

Notes
dns_name cannot be updated.
dns_name cannot be written.

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.

<table>
<thead>
<tr>
<th>forbid_reclamation</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>last_queried</th>
</tr>
</thead>
</table>

**last_queried**
The time of the last DNS query in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
 dernier_queried cannot be updated.
last_queried cannot be written.

<table>
<thead>
<tr>
<th>mail_exchanger</th>
</tr>
</thead>
</table>

**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

- `'='` (exact equality)
- `'^='` (regular expression)
Notes

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

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

**Notes**

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

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

**Notes**

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**

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**

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.

**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**
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

zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>aws_rte53_record_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>ddns_principal</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_mail_exchanger</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>forbid_reclamation</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mail_exchanger</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>preference</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
<td>reclaimable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.171 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: record:naptr/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default
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`, `view`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>order</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
<tr>
<td>replacement</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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

<table>
<thead>
<tr>
<th>forbid_reclamation</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>last_queried</th>
</tr>
</thead>
</table>

last_queried
The time of the last DNS query in Epoch seconds format.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_queried cannot be updated.
last_queried cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>order</th>
</tr>
</thead>
</table>

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
  • ‘=’ (exact equality)
  • ‘<=’ (less than search)
  • ‘>=’ (greater than search)

Notes
order is part of the base object.

<table>
<thead>
<tr>
<th>preference</th>
</tr>
</thead>
</table>

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
  • ‘=’ (exact equality)
  • ‘<=’ (less than search)
  • ‘>=’ (greater than search)
Notes
preference is part of the base object.

**reclaimable**

Determines if the record is reclaimable or not.

**Type**

Bool.

**Search**

The field is available for search via

- ‘=’ (exact equality)

**Notes**

reclaimable cannot be updated.
reclaimable cannot be written.

**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**

regexp is part of the base object.

**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

• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
replacement is part of the base object.

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

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

Notes
services is part of the base object.

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 flag for: ttl
Type
Bool.
Create
The default value is *False*.
Search
The field is not available for search.

**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
view is part of the base object.
view cannot be updated.

**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**

zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>comment</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>ddns_protected</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>Bool</td>
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<td>dns_name</td>
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<td>N</td>
<td>N</td>
<td>ext</td>
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<td>N</td>
<td>: = ~</td>
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<td>forbid_reclamation</td>
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<td>N</td>
<td>N</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
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<tr>
<td>order</td>
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<td>N</td>
<td>Y</td>
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<td>Y</td>
<td>&lt;= &gt;</td>
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<td>N</td>
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<td>N</td>
<td>Y</td>
<td>N/A</td>
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<td>N</td>
<td>Y</td>
<td>= ~</td>
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<tr>
<td>services</td>
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<td>N</td>
<td>Y</td>
<td>: = ~</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.172 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.

### 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
Restrictions

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>addresses</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>nameserver</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Notes**
name is part of the base object.
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
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=’ (regular expression)

Notes
nameserver is part of the base object.

policy

Type
String.

Search
The field is not available for search.

Notes
policy cannot be updated.
policy cannot be written.

view

Type
String.

Create
The default value is The default DNS view.

Search
The field is available for search via
• ‘=’ (exact equality)

Notes
view is part of the base object.
view cannot be updated.
### 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**

zone cannot be updated.

zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>addresses</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_delegation_name</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
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<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
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<td>N</td>
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<td>: = ~</td>
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<td>policy</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.173 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: record:nsec/ZG5zLmJpsaG9zdA:us.example.com/default.external
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 the 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, 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
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
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
creator cannot be updated.
creator cannot be written.

dns_name

dns_name
The name for a 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
dns_name cannot be updated.
dns_name cannot be written.

dns_next_owner_name

dns_next_owner_name
The next owner name in punycode format.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
dns_next_owner_name cannot be updated.
dns_next_owner_name cannot be written.

**last_queried**

The time of the last DNS query in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_queried cannot be updated.
last_queried cannot be written.

**name**

The name of the NSEC record in *FQDN* format.

**Type**
String.

**Search**
The field is available for search via

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

**Notes**
name is part of the base object.
name cannot be updated.
name cannot be written.
### next_owner_name

**next_owner_name**
The next owner name that has authoritative data or that contains a delegation point NS record.

**Type**
String.

**Search**
The field is available for search via
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**Notes**
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**
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).
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**

`use_ttl` cannot be updated.

`use_ttl` 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**

`view` is part of the base object.

`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
zone cannot be updated.
zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
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<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
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<td>N</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>Y</td>
<td>=</td>
</tr>
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<td>Y</td>
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<td>= = ~</td>
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</tr>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>use_ttl</td>
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<td>N/A</td>
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<tr>
<td>view</td>
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<td>Y</td>
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</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.174 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: record:nsec3/ZG5zLmJpsaG9zdA:us.example.com/default.external

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 the 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, view.

| algorithm |

**algorithm**

The hash algorithm that was used.

**Type**

String.

**Valid values are:**

• DSA
• NSEC3DSA
• NSEC3RSASHA1
• RSAMD5
• RSASHA1
• RSASHA256
• RSASHA512

**Search**

The field is available for search via

• ‘=’ (exact equality)

**Notes**

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
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
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
creator cannot be updated.
creator cannot be written.
**dns_name**

The name for a 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**

dns_name cannot be updated.

dns_name cannot be written.

**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

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

**Notes**

flags cannot be updated.

flags cannot be written.

**iterations**

The number of times the hash function was performed.

**Type**

Unsigned integer.

**Search**

The field is available for search via

- `'='` (exact equality)
- `'<=` (less than search)
• ‘>=’ (greater than search)

Notes
iterations cannot be updated.
iterations cannot be written.

<table>
<thead>
<tr>
<th>last_queried</th>
</tr>
</thead>
</table>

last_queried
The time of the last DNS query in *Epoch seconds* format.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_queried cannot be updated.
last_queried cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

name
The name of the NSEC3 record in *FQDN* format.

Type
String.

Search
The field is available for search via

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

Notes
name is part of the base object.
name cannot be updated.
name cannot be written.

<table>
<thead>
<tr>
<th>next_owner_name</th>
</tr>
</thead>
</table>

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**
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**
rrset_types cannot be updated.
rrset_types cannot be written.

---

**salt**

**salt**
The series of case-insensitive hexadecimal digits. It is appended to the original owner name as protection against pre-calculated dictionary attacks. New salt value is generated when the ZSK rolls over, for which the user can control the period. For random salt, the selected length is between one and 15 octets.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
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).
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**
use_ttl cannot be updated.
use_ttl 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**
view is part of the base object.
view cannot be updated.
view cannot be written.
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

zone cannot be updated.
zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>algorithm</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>flags</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
<td>iterations</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>next_owner_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rrset_types</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>salt</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.175 record:nsec3param : DNS NSEC3 record object.

An authoritative DNS server uses NSEC3PARAM RR 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: record:nsec3param/ZG5zLmJpsaG9zdA:us.example.com/default.external

**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 the 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, view*.

**algorithm**

*algorithm*

The hash algorithm that was used.

*Type*

String.

*Valid values are:*

- DSA
- NSEC3DSA
- NSEC3RSASHA1
- RSAMD5
- RSASHA1
- RSASHA256
- RSASHA512
Search
The field is available for search via
• ‘=’ (exact equality)

Notes
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
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
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
creator cannot be updated.
creator cannot be written.

dns_name

dns_name
The name for a 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
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
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
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**
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)
Notes
name is part of the base object.
name cannot be updated.
name cannot be written.

**salt**

salt
The series of case-insensitive hexadecimal digits. It is appended to the original owner name as protection against pre-calculated dictionary attacks. New salt value is generated when the ZSK rolls over, for which the user can control the period. For random salt, the selected length is between one and 15 octets.

Type
String.

Search
The field is not available for search.

Notes
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).
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
use_ttl cannot be updated.
use_ttl 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
view is part of the base object.
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
zone cannot be updated.
zone cannot be written.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>algorithm</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>Y</td>
<td>N</td>
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</tr>
<tr>
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</tr>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.176 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: record:ptr/ZG5zLmJpsaG9zdA:1.0.0.127.in-addr.arpa/default.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): ptrdname, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td>The field is required only for an IPv4 PTR object.</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>The field is required only for an IPv6 PTR object.</td>
</tr>
<tr>
<td>name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ptrdname</td>
<td></td>
</tr>
</tbody>
</table>
**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**  
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**  
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  
- ‘::=’ (case insensitive search)  
- ‘:=’ (exact equality)  
- ‘~:=’ (regular expression)


**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**
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

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

### 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**

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**
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**
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.

<table>
<thead>
<tr>
<th>ipv4addr</th>
</tr>
</thead>
</table>

**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 range* (default parameters: `{‘num’: 1}`)
- *the next_available_ip function call in object network* (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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td>See comment</td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>

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:

```json
{
    '_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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**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:

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>_object_function</td>
<td>The name of the function.</td>
</tr>
<tr>
<td>Y</td>
<td>_result_field</td>
<td>The field in which the function returns its result.</td>
</tr>
<tr>
<td></td>
<td>_object</td>
<td>The WAPI object type on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td></td>
<td>_object_ref</td>
<td>A WAPI object reference on which the function calls. Either _object or _object_ref must be set.</td>
</tr>
<tr>
<td>N</td>
<td>_parameters</td>
<td>The parameters to be passed to the function.</td>
</tr>
<tr>
<td></td>
<td>_object_parameters</td>
<td>The parameters used for the object search, mandatory if _object is set.</td>
</tr>
</tbody>
</table>
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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

last_queried
The time of the last DNS query in Epoch seconds format.

Type
Timestamp.

Search
The field is not available for search.

Notes
last_queried cannot be updated.
last_queried cannot be written.

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**

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

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

---

### 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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~:=’ (regular expression)
Notes
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**
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**
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 flag for: ttl
Type
Bool.
Create
The default value is False.
Search
The field is not available for search.

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
view is part of the base object.
view cannot be updated.

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
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)

Notes
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 IP address of Wireless Access Point.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

Notes
discovered_data.ap_ip_address is a search-only field.

discovered_data.ap_name

Discovered name of Wireless Access Point.

Type
String.

Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

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

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

**Notes**

discovered_data.ap_ssid 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

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

**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

- `:=` (case insensitive search)
- `=` (exact equality)
discovered_data.cisco_ise_endpoint_profile is a search-only field.

**discovered_data.cisco_ise_security_group**

The Cisco ISE security group name.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.cisco_ise_security_group is a search-only field.

**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

The Cisco ISE SSID.

Type
String.

Search
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
discovered_data.cisco_ise_ssid is a search-only field.

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

Notes
discovered_data.cmp_type is a search-only field.

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

Notes

discovered_data.device_contact is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.device_location</strong></td>
<td>Location of device on which the IP address was discovered.</td>
</tr>
</tbody>
</table>

**Type**

String.

**Search**

The field is available for search via

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

Notes

discovered_data.device_location is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.device_model</strong></td>
<td>The model name of the end device in the vendor terminology.</td>
</tr>
</tbody>
</table>

**Type**

String.

**Search**

The field is available for search via

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

Notes

discovered_data.device_model is a search-only field.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.device_port_name</strong></td>
<td>The system name of the interface associated with the discovered IP address.</td>
</tr>
</tbody>
</table>

**Type**

String.
**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

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

**Notes**

discovered_data.device_port_type is a search-only field.

**discovered_data.device_type**

The type of end host in vendor terminology.

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

discovered_data.device_type is a search-only field.
discovered_data.device_vendor

The vendor name of the end host.

Type
String.

Search
The field is available for search via
  • ':=' (case insensitive search)
  • '=' (exact equality)
  • '~=' (regular expression)

Notes
discovered_data.device_vendor is a search-only field.

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

Notes
discovered_data.discovered_name is a search-only field.

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

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

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

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

- ‘!=' (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

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
- ‘!’=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.iprg_no is a search-only field.

---

**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**

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**

The date and time the IP address was last discovered in *Epoch seconds* format.

**Type**

Timestamp.

**Search**

The field is available for search via

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

**Notes**

discovered_data.last_discovered is a search-only field.

**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

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

**Notes**

discovered_data.mac_address is a search-only field.

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

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

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

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

**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
- `=` (exact equality)
- `~=` (regular expression)

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

**Notes**
discovered_data.network_component_location is a search-only field.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>discovered_data.network_component_model</code></td>
<td>Model name of the switch port connected to the end device in the vendor terminology.</td>
<td>String.</td>
<td><code>':='</code>, <code>'='</code>, <code>'~='</code></td>
<td><code>discovered_data.network_component_model</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.network_component_name</code></td>
<td>If a reverse lookup was successful for the IP address associated with this switch, the host name is displayed here.</td>
<td>String.</td>
<td><code>':='</code>, <code>'='</code>, <code>'~='</code></td>
<td><code>discovered_data.network_component_name</code> is a search-only field.</td>
</tr>
<tr>
<td><code>discovered_data.network_component_port_description</code></td>
<td>A textual description of the switch port that is connected to the end device.</td>
<td>String.</td>
<td><code>':='</code>, <code>'='</code></td>
<td></td>
</tr>
</tbody>
</table>
Notes
discovered_data.network_component_port_description is a search-only field.

<table>
<thead>
<tr>
<th>discovered_data.network_component_port_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>The name of the switch port connected to the end device.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Notes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.network_component_port_number</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of the switch port connected to the end device.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>Notes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>discovered_data.network_component_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>discovered_data.network_component_type</td>
</tr>
</tbody>
</table>
Identifies the switch that is connected to the end device.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

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

**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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
**Notes**
discovered_data.open_ports is a search-only field.

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

**Notes**
discovered_data.os is a search-only field.

**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**

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
Notes
discovered_data.port_type is a search-only field.

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

Notes
discovered_data.port_vlan_description is a search-only field.

discovered_data.port_vlan_name

The name of the VLAN of the switch port.

Type
String.

Search
The field is available for search via
  • `:=` (case insensitive search)
  • `=' (exact equality)
  • `~=` (regular expression)

Notes
discovered_data.port_vlan_name is a search-only field.

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

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

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

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

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


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

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

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

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

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

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

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

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

Notes
discovered_data.vlan_port_group is a search-only field.
**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

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

**Notes**

discovered_data.vmhost_ip_address is a search-only field.

**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

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

**Notes**

discovered_data.vmhost_mac_address is a search-only field.

**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

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

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

**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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

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

**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**

Name of the virtual machine.

**Type**

String.

**Search**

The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**

discovered_data.vmi_name is a search-only field.

**discovered_data.vmi_private_address**

Private IP address of the virtual machine.

**Type**

String.

**Search**

The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**

discovered_data.vmi_private_address is a search-only field.

**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.

<table>
<thead>
<tr>
<th><strong>discovered_data.vport_conf_mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vport_conf_mode</strong></td>
</tr>
<tr>
<td>Configured mode of the network adapter on the virtual switch where the virtual machine connected to.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• Full-duplex</td>
</tr>
<tr>
<td>• Half-duplex</td>
</tr>
<tr>
<td>• Unknown</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=' (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>
discovered_data.vport_conf_mode is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vport_conf_speed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>discovered_data.vport_conf_speed</strong></td>
</tr>
<tr>
<td>Configured speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘!=' (negative search)</td>
</tr>
<tr>
<td>• ‘=' (exact equality)</td>
</tr>
<tr>
<td>• ‘&lt;=’ (less than search)</td>
</tr>
<tr>
<td>• ‘&gt;=’ (greater than search)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
</tbody>
</table>
discovered_data.vport_conf_speed is a search-only field.
**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

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

**Notes**

discovered_data.vport_link_status is a search-only field.

**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

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

**Notes**

discovered_data.vport_mac_address is a search-only field.

**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

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

**Notes**
discovered_data.vport_mode is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vport_name</strong></th>
</tr>
</thead>
</table>

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

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

**Notes**
discovered_data.vport_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vport_speed</strong></th>
</tr>
</thead>
</table>

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

- ‘!=’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
discovered_data.vport_speed is a search-only field.
**discovered_data.vswitch_available_ports_count**

**Number 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
- ‘!’ (negative search)
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
`discovered_data.vswitch_available_ports_count` is a search-only field.

**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**

**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.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
</table>
| `discovered_data.vswitch_name` | Name of the virtual switch. | String. | Available for search via:  
  - `:` (case insensitive search)  
  - `=` (exact equality)  
  - `~=` (regular expression) | Discovered_data.vswitch_name is a search-only field. |
| `discovered_data.vswitch_segment_id` | ID of the network segment on which the current virtual machine/vport connected to. | String. | Available for search via:  
  - `=` (exact equality) | Discovered_data.vswitch_segment_id is a search-only field. |
| `discovered_data.vswitch_segment_name` | Name of the network segment on which the current virtual machine/vport connected to. | String. | Available for search via:  
  - `:` (case insensitive search)  
  - `=` (exact equality)  
  - `~=` (regular expression) |
Notes
discovered_data.vswitch_segment_name is a search-only field.

<table>
<thead>
<tr>
<th><strong>discovered_data.vswitch_segment_port_group</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Port group of the network segment on which the current virtual machine/vport connected to.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Notes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.vswitch_segment_type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of the network segment on which the current virtual machine/vport connected to.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Notes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>discovered_data.vswitch_tep_dhcp_server</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
</tbody>
</table>
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
- ‘:=' (case insensitive search)
- ‘=' (exact equality)
- ‘~=’ (regular expression)

Notes
discovered_data.vswitch_tep_ip is a search-only field.

discovered_data.vswitch_tep_multicast

Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type
String.

Search
The field is available for search via
- ‘:=' (case insensitive search)
- ‘=' (exact equality)
- ‘~=’ (regular expression)

Notes
discovered_data.vswitch_tep_multicast is a search-only field.

discovered_data.vswitch_tep_port_group

Port group of the virtual tunnel endpoint (VTEP) in the virtual switch.
**discovered_data.vswitch_tep_port_group**

**discovered_data.vswitch_tep_port_group**

Type of virtual tunnel endpoint (VTEP) in the virtual switch.

**Type**

String.

**Search**

The field is available for search via

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

**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

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

**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

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

**Notes**

discovered_data.vswitch_tep_vlan is a search-only field.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
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</thead>
<tbody>
<tr>
<td>aws_rte53_record_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>ddns_principal</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>discovered_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_ptrdname</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>N</td>
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<td>forbid_reclamation</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
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<td>= ~</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
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<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>ms_ad_user_data</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
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<tr>
<td>ptrdname</td>
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</tr>
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<td>reclaimable</td>
<td>Bool</td>
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<td>Y</td>
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<td>N</td>
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<td>Y</td>
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<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
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</tbody>
</table>

* Required in some cases, see detailed field description above.
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
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</thead>
<tbody>
<tr>
<td>discovered_data.ap_ip_address</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.ap_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.ap_ssid</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.bridge_domain</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_endpoint_profile</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_security_group</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cisco_ise_session_state</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.cmp_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_contact</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_location</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.device_model</td>
<td>String</td>
<td>:= ~</td>
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<td>discovered_data.device_port_name</td>
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<td>:= ~</td>
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<tr>
<td>discovered_data.device_port_type</td>
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<td>:= ~</td>
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<td>discovered_data.device_type</td>
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<td>:= ~</td>
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<td>discovered_data.device_vendor</td>
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<td>discovered_data.discovered_name</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.discoverer</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.endpoint_groups</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.first_discovered</td>
<td>Timestamp</td>
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</tr>
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<td>discovered_data.iprg_no</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
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<td>discovered_data.iprg_state</td>
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</tr>
<tr>
<td>discovered_data.iprg_type</td>
<td>String</td>
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<td>discovered_data.last_discovered</td>
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<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.mac_address</td>
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</tr>
<tr>
<td>discovered_data_mgmt_ip_address</td>
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<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.netbios_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
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<td>discovered_data.network_component_contact</td>
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<tr>
<td>discovered_data.network_component_description</td>
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<tr>
<td>discovered_data.network_component_ip</td>
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<td>:= ~</td>
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<tr>
<td>discovered_data.network_component_location</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_model</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_port_number</td>
<td>Unsigned int</td>
<td>! &lt; =&gt;</td>
</tr>
<tr>
<td>discovered_data.network_component_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.network_component_vendor</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.open_ports</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.os</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_duplex</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_link_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_speed</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_status</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.port_type</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_description</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>discovered_data.port_vlan_name</td>
<td>String</td>
<td>:= ~</td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Search</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------</td>
<td>--------</td>
</tr>
<tr>
<td>discovered_data.port_vlan_number</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.task_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.tenant</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_adapter</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_cluster</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_datacenter</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_entity_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.v_host</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.v_switch</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vlan_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_ip_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_nic_names</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmhost_subnet_cidr</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vmi_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_ip_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_is_public_address</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vmi_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmi_private_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vmiTenant_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_conf_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vport_link_status</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mac_address</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_mode</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vport_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vport_speed</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_available_ports_count</td>
<td>Unsigned int</td>
<td>! &lt;= &gt;</td>
</tr>
<tr>
<td>discovered_data.vswitch_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_ipv6_enabled</td>
<td>Bool</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_id</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_name</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_segment_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_dhcp_server</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_ip</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_multicast</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_port_group</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_tep_type</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>discovered_data.vswitch_vlan</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>discovered_data.vswitch_type</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

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 the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>disable</strong></td>
<td>Determines if the record is disabled or not. False means that the record is enabled. Type: Bool. Create: The default value is <strong>False</strong>. Search: The field is not available for search.</td>
</tr>
<tr>
<td><strong>extattrs</strong></td>
<td>Extensible attributes associated with the object. For valid values for extensible attributes, see the following information. Type: Extensible attributes. Create: The default value is <strong>empty</strong>. Search: For how to search extensible attributes, see the following information.</td>
</tr>
<tr>
<td><strong>ipv4addr</strong></td>
<td>The <strong>IPv4 Address</strong> of the substitute rule. Type: String. Create: The field is required on creation. Search:</td>
</tr>
</tbody>
</table>
The field is available for search via

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

Notes

ipv4addr is part of the base object.

### name

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Create</th>
<th>Search</th>
</tr>
</thead>
</table>
| name | String. | The field is required on creation. | The field is available for search via

- `~=' (regular expression) |

Notes

name is part of the base object.

### rp_zone

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Create</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>rp_zone</td>
<td>The name of a response policy zone in which the record resides.</td>
<td></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

Notes

name is part of the base object.

### ttl

| Name | |
|------| |
| 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.

### 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**
view is part of the base object.
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

zone cannot be updated.

zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


An RPZ AlpAddress 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 AlpAddress 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 the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

---

<table>
<thead>
<tr>
<th>extattrs</th>
</tr>
</thead>
</table>

**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.

---

<table>
<thead>
<tr>
<th>ipv4addr</th>
</tr>
</thead>
</table>

**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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**

ipv4addr is part of the base object.
**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

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

**Notes**

name is part of the base object.

---

**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**

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`).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl  
**Type**  
Bool.

**Create**  
The default value is *False*.

**Search**  
The field is not available for search.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

**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**  
view is part of the base object.

<table>
<thead>
<tr>
<th>zone</th>
</tr>
</thead>
</table>

**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
zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>ext</td>
</tr>
<tr>
<td>extattr</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.179 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 the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**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

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

The *IPv6 Address* of the substitute rule.  

**Type**  
String.  

**Create**  
The field is required on creation.  

**Search**  
The field is available for search via  
- ‘=’ (exact equality)  
- ‘~=' (regular expression)  

**Notes**  
ipv6addr is part of the base object.  

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

Notes
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.

---

### view

- **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**
  - view is part of the base object.

---

### zone

- **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**
  - zone cannot be updated.
  - zone cannot be written.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


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 the 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, view.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**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**

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*.

<table>
<thead>
<tr>
<th>ipv6addr</th>
</tr>
</thead>
</table>

**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

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

**Notes**
ipv6addr is part of the base object.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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

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

**Notes**
name is part of the base object.
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.

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 flag for: ttl

Type
Bool.
Create
The default value is False.
Search
The field is not available for search.
**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**

view is part of the base object.

---

**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**

zone cannot be updated.

zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.181 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: record:rpz:cname/ZG5zLmJpbmRfY25h:some.name.com/myview

### Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

**Notes**

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

**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
• ‘:=’ (case insensitive search)
• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
name is part of the base object.

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
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 flag for: ttl

Type
Bool.

Create
The default value is False.
Search
The field is not available for search.

**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**
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**
zone cannot be updated.
zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
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<td>N/A</td>
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<tr>
<td>disable</td>
<td>Bool</td>
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<td>N</td>
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<td>extattrs</td>
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<tr>
<td>name</td>
<td>String</td>
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<td>N</td>
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<td>: = ~</td>
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<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


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: `record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25h :some.name.com/myview`

### Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

canonical is part of the base object.

**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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**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. Ohterwise, it is an IPv6 record.

**Type**
Bool.

**Search**
The field is not available for search.

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

**Notes**
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.

### 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**
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**

zone cannot be updated.
zone cannot be written.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>extattrs</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>is_ipv4</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

**3.183 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: record:rpz:cname:clientipaddressdn/ZG5zLmJpbmRfY25h :some.name.com/myview

**Restrictions**

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Notes

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

### 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**

is_ipv4 cannot be updated.
is_ipv4 cannot be written.

**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

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

**Notes**

name is part of the base object.

**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**

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*. 
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

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**
view is part of the base object.

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
zone cannot be updated.
zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>is_ipv4</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.184 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: record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25h:some.name.com/myview
**Restrictions**

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

canonical is part of the base object.

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

**disable**

Determine 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**

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**


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

is_ipv4 cannot be updated.
is_ipv4 cannot be written.

name

The name for a record in FQDN format. This value cannot be in unicode format.

Type

String.

Create

The field is required on creation.

Search

The field is available for search via

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

Notes

name is part of the base object.

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**

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 flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

**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**
view is part of the base object.
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
zone cannot be updated.
zone cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~ : =</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>~ : =</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>is_ipv4</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

3.185 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: record:rpz:cname:ipaddressdn/ZG5zLmJpbmRfY25h:some.name.com/myview

**Restrictions**

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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**, **view**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**

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

---

**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**

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**

is_ipv4 cannot be updated.

is_ipv4 cannot be written.

---

**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

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

**Notes**

name is part of the base object.

---

**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**

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 flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

**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
view is part of the base object.

table

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
zone cannot be updated.
zone cannot be written.

Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>is_ipv4</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


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: record:rpz:mx/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>mail_exchanger</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Determine 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**

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 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

- ‘=’ (exact equality)
- ‘~*’ (regular expression)
mail_exchanger is part of the base object.

**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

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

**Notes**

name is part of the base object.

**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

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

**Notes**

preference is part of the base object.
**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**

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 flag for: ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.
**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**

view is part of the base object.

---

**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**

zone cannot be updated.
zone cannot be written.
Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td>ext</td>
</tr>
<tr>
<td>mail_exchanger</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>preference</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;=</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


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: record:rpz:naptr/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>order</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
<tr>
<td>replacement</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

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

**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.

<table>
<thead>
<tr>
<th>flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>flags</td>
</tr>
</tbody>
</table>
| 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 |
| • ‘:=’ (case insensitive search) |
| • ‘=’ (exact equality) |
| • ‘~:=’ (regular expression) |

<table>
<thead>
<tr>
<th>last_queried</th>
</tr>
</thead>
<tbody>
<tr>
<td>last_queried</td>
</tr>
<tr>
<td>The time of the last DNS query in Epoch seconds format.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>last_queried cannot be updated.</td>
</tr>
<tr>
<td>last_queried cannot be written.</td>
</tr>
</tbody>
</table>

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

**Notes**
name is part of the base object.

---

**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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
order is part of the base object.

---

**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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
preference is part of the base object.

---

**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**
regexp is part of the base object.

---

**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
• ‘’=’’ (exact equality)
• ‘’~=’’ (regular expression)

Notes
replacement is part of the base object.

<table>
<thead>
<tr>
<th>rp_zone</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>services</th>
</tr>
</thead>
</table>

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

Notes
services is part of the base object.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

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.

### 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**

view is part of the base object.
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**

zone cannot be updated.

zone cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>flags</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>order</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>preference</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>regexp</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>replacement</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>services</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

### 3.188 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 a Substitute (PTR Record) Rule object reference has the following components:

- Name of the record
- Name of the view

Example: record:rpz:ptr/ZG5zLmJpsaG9zdA:1.0.0.127.in-addr.arpa/external

**Restrictions**

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td>The field is required only for an IPv4 PTR object.</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>The field is required only for an IPv6 PTR object.</td>
</tr>
<tr>
<td>name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ptrdname</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
</tbody>
</table>

**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

- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)
**disable**

Disables the record. False means that the record is enabled.

**Type**

Bool.

**Create**

The default value is False.

**Search**

The field is not available for search.

**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**

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

- `=` (exact equality)
- `~=` (regular expression)
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
- ‘=’ (exact equality)
- ‘~’ (regular expression)

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

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

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

Notes
ptrdname is part of the base object.

**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**

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 flag for: ttl

**Type**
Bool.

**Create**
The default value is \textit{False}.

\textbf{Search}

The field is not available for search.

\begin{itemize}
\item \textbf{view}
\end{itemize}

\textbf{view}

The name of the DNS View in which the record resides. Example: “external”.

\textbf{Type}

String.

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

\textbf{Create}

The default value is \textit{The default DNS view}.

\textbf{Search}

The field is available for search via

\begin{itemize}
\item ‘\textasciitilde’ (exact equality)
\end{itemize}

\textbf{Notes}

view is part of the base object.

\begin{itemize}
\item \textbf{zone}
\end{itemize}

\textbf{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.

\textbf{Type}

String.

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

\textbf{Search}

The field is available for search via

\begin{itemize}
\item ‘\textasciitilde’ (exact equality)
\end{itemize}

\textbf{Notes}

zone cannot be updated.

zone cannot be written.

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: record:rpz:srv/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view, weight.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>ext</td>
<td></td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ptrdname</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>rp_zone</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

* Required in some cases, see detailed field description above.
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>port</td>
<td></td>
</tr>
<tr>
<td>priority</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
<tr>
<td>target</td>
<td></td>
</tr>
<tr>
<td>weight</td>
<td></td>
</tr>
</tbody>
</table>

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

**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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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

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

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
</table>

**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
port is part of the base object.
**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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

**Notes**
priority is part of the base object.

**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**

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
Notes

target is part of the base object.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**

Use flag for: ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

**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
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
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
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
zone cannot be updated.
zone cannot be written.

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: record:rpz:txt/ZG5zLmhvc3RjkuMC4xLg:some.name.com/default

Restrictions

The object does not support the following operations:

- Permissions

The object cannot be managed on the 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, view.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>rp_zone</td>
<td></td>
</tr>
<tr>
<td>text</td>
<td></td>
</tr>
</tbody>
</table>

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

**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**

eattrs
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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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

**Notes**
name is part of the base object.

<table>
<thead>
<tr>
<th>rp_zone</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>text</th>
</tr>
</thead>
</table>

**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
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
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.
**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**
view is part of the base object.

---

**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**
zone cannot be updated.
zone cannot be written.
3.191 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). The digital signatures are used to authenticate the 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: record:rrsig/ZG5zLmJpsaG9zdA:us.example.com/default.external

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 the 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, 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

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
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**

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**

creator cannot be updated.
creator cannot be written.

**dns_name**

*dns_name*
The name for a RRSIG record in punycode format.

**Type**
String.

Values with leading or trailing white space are not valid for this field.
### 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**
dns_signer_name cannot be updated.
dns_signer_name cannot be written.

### expiration_time

**expiration_time**
The expiration time of an RRSIG record in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
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**
inception_time cannot be updated.
inception_time cannot be written.

<table>
<thead>
<tr>
<th>key_tag</th>
</tr>
</thead>
</table>

**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
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**Notes**
key_tag cannot be updated.
key_tag cannot be written.

<table>
<thead>
<tr>
<th>labels</th>
</tr>
</thead>
</table>

**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
- ‘=’ (exact equality)
- ‘<’ (less than search)
- ‘>’ (greater than search)

**Notes**
labels cannot be updated.
labels cannot be written.

<table>
<thead>
<tr>
<th>last_queried</th>
</tr>
</thead>
</table>

**last_queried**
The time of the last DNS query in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

**Notes**
name is part of the base object.
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
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)
original_ttl cannot be updated.
original_ttl cannot be written.

**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**
signature cannot be updated.
signature cannot be written.

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

**Notes**
signer_name cannot be updated.
signer_name cannot be written.

**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).
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
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
use_ttl cannot be updated.
use_ttl 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**
view is part of the base object.
view cannot be updated.
view cannot be written.

---

**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**
zone cannot be updated.
zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>algorithm</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>dns_signer_name</td>
<td>String</td>
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<td>Y</td>
<td>N/A</td>
<td></td>
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<tr>
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<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>inception_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>key_tag</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>labels</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>original_ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>signature</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>signer_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>type_covered</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.192 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: record: srv/ZzEwLzgwL2F6:test.az/default.external

#### 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, view, weight.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>port</td>
<td></td>
</tr>
<tr>
<td>priority</td>
<td></td>
</tr>
<tr>
<td>target</td>
<td></td>
</tr>
<tr>
<td>weight</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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**

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

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

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

**Notes**
name is part of the base object.
### 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**

port is part of the base object.

### 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

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

**Notes**

priority is part of the base object.

### reclaimable

Determines if the record is reclaimable or not.

**Type**

Bool.

**Search**

The field is available for search via
• ‘=’ (exact equality)

Notes
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**
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
- ‘=’ (exact equality)
- ‘~*’ (regular expression)

**Notes**
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*).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

**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**
view is part of the base object.
view cannot be updated.
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

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

Notes

weight is part of the base object.

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

zone cannot be updated.
zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>aws_rte53_record_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ddns_principal</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_target</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>forbid_reclamation</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>priority</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
<td>reclaimable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>target</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>weight</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt; = &gt;</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.193 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: record:tlsa/ZG5zLmhvc3RjkuMC4xLg:9.9.0.1/some.name.com/default

### Fields

These fields are actual members of the object; 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, view.
The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>certificate_data</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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 default value is 0.

**Search**

The field is not available for search.

**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**

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

**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**
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**
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 default value is 0.

**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

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

**Notes**

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 default value is 0.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>ttl</strong></th>
</tr>
</thead>
</table>

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*).

<table>
<thead>
<tr>
<th><strong>use_ttl</strong></th>
</tr>
</thead>
</table>

use_ttl
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is `False`.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th><strong>view</strong></th>
</tr>
</thead>
</table>

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
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
zone cannot be updated.
zone cannot be written.

---

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>certificate_data</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>certificate_usage</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>= : ~</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>matched_type</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= : ~</td>
</tr>
<tr>
<td>selector</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

---

### 3.194 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: record:txt/ZG5zLmJpbmRfdHh0U2Ig:txt.wtest.foo.bar/external

**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, view*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>text</td>
<td></td>
</tr>
</tbody>
</table>

**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**

*aws_rte53_record_info* cannot be updated.

*aws_rte53_record_info* cannot be written.
### cloud_info

**field name**: 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**
cloud_info cannot be updated.
cloud_info cannot be written.

### comment

**field name**: 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

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

### creation_time

**field name**: creation_time

The time of the record creation in *Epoch seconds* format.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
creation_time cannot be updated.
creation_time cannot be written.
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
The GSS-TSIG principal that owns this record.

Type
String.

Create
The default value is empty.

Search
The field is available for search via

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

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

Type
Bool.

Create
The default value is \textit{False}.

\textbf{Search}

The field is not available for search.

\begin{tabular}{|l|}
\hline
\textbf{disable} \\
\hline
\end{tabular}

\textbf{disable}

Determines if the record is disabled or not. \textit{False} means that the record is enabled.

\textbf{Type}

\textit{Bool}.

\textbf{Create}

The default value is \textit{False}.

\textbf{Search}

The field is not available for search.

\begin{tabular}{|l|}
\hline
\textbf{dns\_name} \\
\hline
\end{tabular}

\textbf{dns\_name}

The name for a TXT record in punycode format.

\textbf{Type}

\textit{String}.

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

\textbf{Search}

The field is not available for search.

\textbf{Notes}

dns\_name cannot be updated.
dns\_name cannot be written.

\begin{tabular}{|l|}
\hline
\textbf{extattrs} \\
\hline
\end{tabular}

\textbf{extattrs}

Extensible attributes associated with the object.

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

\textbf{Type}

Extensible attributes.

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

\textbf{Create}

The default value is \textit{empty}.

\textbf{Search}
For how to search extensible attributes, see *the following information*.

<table>
<thead>
<tr>
<th><strong>forbid_reclamation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>forbid_reclamation</strong></td>
</tr>
<tr>
<td>Determines if the reclamation is allowed for the record or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>last_queried</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>last_queried</strong></td>
</tr>
<tr>
<td>The time of the last DNS query in <em>Epoch seconds</em> format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>last_queried cannot be updated.</td>
</tr>
<tr>
<td>last_queried cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>name</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
</tr>
<tr>
<td>Name for the TXT record in <em>FQDN</em> format. This value can be in unicode format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘:=’ (case insensitive search)</td>
</tr>
<tr>
<td>• ‘='' (exact equality)</td>
</tr>
<tr>
<td>• ‘~:’ (regular expression)</td>
</tr>
</tbody>
</table>
Notes
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**
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**
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 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
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
text is part of the base object.

**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 flag for: ttl

**Type**
Bool.

**Create**
The default value is `False`.

**Search**
The field is not available for search.

**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
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**
zone cannot be updated.
zone cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>aws_rte53_record_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>creation_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>creator</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ddns_principal</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_protected</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>forbid_reclamation</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>last_queried</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>reclaimable</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>text</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.195 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: recordnamepolicy/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNILjI1Mg:Default

### Restrictions

The object does not support the following operations:

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

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>regex</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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

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

**Notes**

name is part of the base object.
**pre_defined**

Determines whether the record name policy is a predefined one.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

pre_defined cannot be updated.

pre_defined cannot be written.

**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**

regex is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>is_default</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=~</td>
</tr>
<tr>
<td>pre_defined</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>regex</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.196 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:
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>Dictionary. Data that is dependent on the method and is sent in the body of a normal WAPI request.</td>
</tr>
<tr>
<td>args</td>
<td>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.</td>
</tr>
<tr>
<td>method</td>
<td>String. Method of the operation (see below for more information).</td>
</tr>
<tr>
<td>object</td>
<td>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.</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_substitution</td>
<td>Boolean. Determines if the variables created in the stated request can be used for the current operation.</td>
</tr>
<tr>
<td>assign_state</td>
<td>Dictionary. Fields of the result object in 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.</td>
</tr>
<tr>
<td>discard</td>
<td>Boolean. Result of the current operation will be skipped and will not be added to the returned result list.</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATE:ASSIGN</td>
<td>Copy fields in the data object to the state object.</td>
</tr>
<tr>
<td>STATE:DISPLAY</td>
<td>Added the state object to the returned result list.</td>
</tr>
</tbody>
</table>

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)
3.197 restartservicestatus: Restart service status object.

This object represents the service status. Use 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 the 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`.

```plaintext
dhcp_status
```

```plaintext
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**

dhcp_status is part of the base object.
dhcp_status cannot be updated.
dhcp_status cannot be written.

---

**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
dns_status is part of the base object.
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
member is part of the base object.
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

reporting_status is part of the base object.

reporting_status cannot be updated.

reporting_status cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>dhcp_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>reporting_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.198 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 (Réseaux 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:** rir/ZG5zLm9wdGlvd9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:RIPE

### 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 the 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.

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

communication_mode is part of the base object.

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).

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**
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).

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.

<table>
<thead>
<tr>
<th><strong>use_url</strong></th>
</tr>
</thead>
</table>

**use_url**
Use flag for: url

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>communication_mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>email</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>url</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>use_email</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_url</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.199 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:** rir/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGlucm8uLmZhbHNlJjI1Mg:RIPE/RIPE/rir_org1
Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>extattrs</td>
<td></td>
</tr>
<tr>
<td>id</td>
<td></td>
</tr>
<tr>
<td>maintainer</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td></td>
</tr>
<tr>
<td>rir</td>
<td></td>
</tr>
<tr>
<td>sender_email</td>
<td></td>
</tr>
</tbody>
</table>

**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**

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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

Notes
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

• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

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

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

**Notes**
sender_email is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>id</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>maintainer</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>password</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>rir</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>sender_email</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

### 3.200 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: roaminghost/ZG5zLmJpbmRfY25h:somerhost/external
Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>address_type</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>dhcp_client_identifier</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>ipv6_duid</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>mac</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>match_client</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

address_type is part of the base object.
**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**

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**

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

**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**

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

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.
**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**

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**

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*.

<table>
<thead>
<tr>
<th><strong>force_roaming_hostname</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>ignore_dhcp_option_list_request</strong></th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th><strong>ipv6_client_hostname</strong></th>
</tr>
</thead>
</table>

**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**
*ipv6_client_hostname* cannot be updated.
ipv6_client_hostname cannot be written.

<table>
<thead>
<tr>
<th>ipv6_ddns_domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6_ddns_domainname</td>
</tr>
<tr>
<td>The IPv6 DDNS domain name for this roaming host.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>ipv6_ddns_domainname is associated with the field <em>use_ipv6_ddns_domainname</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ipv6_ddns_hostname</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6_ddns_hostname</td>
</tr>
<tr>
<td>The IPv6 DDNS host name for this roaming host.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ipv6_domain_name</th>
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</thead>
<tbody>
<tr>
<td>ipv6_domain_name</td>
</tr>
<tr>
<td>The IPv6 domain name for this roaming host.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
Notes
ipv6_domain_name is associated with the field use_ipv6_domain_name (see use flag).

<table>
<thead>
<tr>
<th>ipv6_domain_name_servers</th>
</tr>
</thead>
</table>
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).

<table>
<thead>
<tr>
<th>ipv6_duid</th>
</tr>
</thead>
</table>
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

<table>
<thead>
<tr>
<th>ipv6_enable_ddns</th>
</tr>
</thead>
</table>
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`

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_match_option`

The identification method for an IPv6 or mixed IPv4/IPv6 roaming host. Currently, the only supported value for this field is “DUID”, which corresponds to identification by DHCPv6 unique ID.

**Type**
String.

**Valid values are:**

- DUID

**Create**
The default value is `empty`.

**Search**
The field is available for search via

- ‘=’ (exact equality)

---

### `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
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
  • ‘:~’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)

**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
  • ‘:~’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)
Notes
name is part of the base object.

**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
network_view is part of the base object.

**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**

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**

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**
template cannot be updated.
template is not readable.

**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 flag for: bootserver

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.
<table>
<thead>
<tr>
<th>use_ddns_domainname</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ddns_domainname</strong></td>
</tr>
<tr>
<td>Use flag for: ddns_domainname</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>use_deny_bootp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_deny_bootp</strong></td>
</tr>
<tr>
<td>Use flag for: deny_bootp</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>use_enable_ddns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_enable_ddns</strong></td>
</tr>
<tr>
<td>Use flag for: enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_ignore_dhcp_option_list_request</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ignore_dhcp_option_list_request</strong></td>
</tr>
<tr>
<td>Use flag for: ignore_dhcp_option_list_request</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is False.
Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ipv6_ddns_domainname</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_ipv6_domain_name</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_ipv6_domain_name_servers</th>
</tr>
</thead>
</table>

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.
<table>
<thead>
<tr>
<th><strong>use_ipv6_enable_ddns</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_ipv6_enable_ddns</strong></td>
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<tr>
<td>Use flag for: ipv6_enable_ddns</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
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<table>
<thead>
<tr>
<th><strong>use_ipv6_options</strong></th>
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</tr>
<tr>
<td>Use flag for: ipv6_options</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_nextserver</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_nextserver</strong></td>
</tr>
<tr>
<td>Use flag for: nextserver</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>use_options</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_options</strong></td>
</tr>
<tr>
<td>Use flag for: options</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_preferred_lifetime</th>
</tr>
</thead>
</table>

use_preferred_lifetime
Use flag for: preferred_lifetime

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_pxe_lease_time</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_valid_lifetime</th>
</tr>
</thead>
</table>

use_valid_lifetime
Use flag for: valid_lifetime

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.
**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>bootfile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>client_identifier_prepend_zero</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_hostname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>deny_bootp</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dhcp_client_identifier</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_ddns</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_pxe_lease_time</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattr</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ignore_dhcp_option_list_request</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_client_hostname</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_ddns_domainname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_ddns_hostname</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_domain_name</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>ipv6_domain_name_servers</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_duid</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>:= ~</td>
</tr>
<tr>
<td>ipv6_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_force_roaming_hostname</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_match_option</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>ipv6_options</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_template</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mac</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>:= ~</td>
</tr>
<tr>
<td>match_client</td>
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<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.36 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>preferred_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>pxe_lease_time</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>template</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootfile</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ddns_domainname</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_enable_ddns</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ignore_dhcp_option_list_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipv6_ddns_domainname</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipv6_domain_name</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipv6_domain_name_servers</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipv6_enable_ddns</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ipv6_options</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_nextserver</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_preferred_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_pxe_lease_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_valid_lifetime</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>valid_lifetime</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

3.201 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: ruleset/ZG5zLm5ldHdvcmtfdmlldyQxMTk:default/NXDOMAIN

**Restrictions**

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
</tr>
</tbody>
</table>

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

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

*Notes*

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
disabled is part of the base object.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**name**
The name of this Ruleset object.

**Type**
String.

**Create**
The field is required on creation.

**Search**
The field is available for search via
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>nxdomain_rules</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
</table>

**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
type is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>nxdomain_rules</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.202 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: scavengingtask/ZG5zLm5ldHdvcmtfdmlldyQxMTk:1

### 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 the 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`.

#### 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**

`action` is part of the base object.

`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**

`associated_object` is part of the base object.

`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**
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**
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**
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**

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**

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

status is part of the base object.

status cannot be updated.

status cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>action</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>associated_object</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>end_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>processed_records</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>reclaimable_records</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>start_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

3.203 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: scheduledtask/ZG5zLm5ldHdvcmtdmlldyQxMTk:12/PENDING

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 the 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.

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

approval_status is part of the base object.

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

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
Notes
approver cannot be updated.
approver cannot be written.

<table>
<thead>
<tr>
<th>approver_comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>approver_comment</td>
</tr>
<tr>
<td>The comment specified by the approver of the task.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is \textit{empty}.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>automatic_restart</th>
</tr>
</thead>
<tbody>
<tr>
<td>automatic_restart</td>
</tr>
<tr>
<td>Indicates whether there will be an automatic restart when the appliance executes the task.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is \textit{False}.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>changed_objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>changed_objects</td>
</tr>
<tr>
<td>A list of objects that are affected by the task.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>A/An \textit{Changed object information} struct array.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>changed_objects cannot be updated.</td>
</tr>
<tr>
<td>changed_objects cannot be written.</td>
</tr>
</tbody>
</table>
**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**
dependent_tasks cannot be updated.
dependent_tasks cannot be written.

---

**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**

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**
execution_details cannot be updated.
exection_details cannot be written.
**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**

execution_details_type cannot be updated.

execution_details_type cannot be written.

---

**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**

execution_status is part of the base object.

execution_status cannot be updated.

execution_status cannot be written.

---

**execution_time**
The time when the appliance executed the task.

Type
Timestamp.

Search
The field is available for search via
- ‘=’ (exact equality)
- ‘<=’ (less than search)
- ‘>=’ (greater than search)

Notes
execution_time cannot be updated.

is_network_insight_task

Indicates whether this is a Network Insight scheduled task.

Type
Bool.

Search
The field is not available for search.

Notes
is_network_insight_task cannot be updated.

member

The member where this task was created.

Type
String.

Search
The field is available for search via
- ‘=’ (exact equality)

Notes
member cannot be updated.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>predecessor_task</strong></td>
<td>If this scheduled task has a predecessor task set, its reference will be returned in this field.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>predecessor_task cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>predecessor_task cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>re_execute_task</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is empty.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>scheduled_time</strong></td>
<td>The time when the task is scheduled to occur.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is The scheduled time.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>The field is available for search via</td>
</tr>
<tr>
<td></td>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td></td>
<td>• ‘&lt;=’ (less than search)</td>
</tr>
<tr>
<td></td>
<td>• ‘&gt;=’ (greater than search)</td>
</tr>
</tbody>
</table>
**submit_time**

*submit_time*

The time when the task was submitted.

**Type**

Timestamp.

**Search**

The field is available for search via

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

**Notes**

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

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

**Notes**

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.

<table>
<thead>
<tr>
<th>task_id</th>
</tr>
</thead>
</table>

**task_id**
The task ID.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
task_id is part of the base object.
task_id cannot be updated.
task_id cannot be written.

<table>
<thead>
<tr>
<th>task_type</th>
</tr>
</thead>
</table>

**task_type**
The task type.

**Type**
String.

**Valid values are:**
- OBJECT_CHANGE
- PORT_CONTROL

**Search**
The field is not available for search.

**Notes**
task_type cannot be updated.
task_type cannot be written.

<table>
<thead>
<tr>
<th>ticket_number</th>
</tr>
</thead>
</table>

**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**
ticket_number cannot be updated.
ticket_number 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

The name of the changed object

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
changed_objects.name is a search-only field.

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

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

**Notes**
changed_objects.type is a search-only field.
### Fields List

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

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>changed_objects.action</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>changed_objects.name</td>
<td>String</td>
<td>: = ~</td>
</tr>
<tr>
<td>changed_objects.object_type</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>changed_objects.type</td>
<td>String</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

### 3.204 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 the 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 is used as the search criterion.
Type
String.
Search
The field is available for search via
  • ‘:=’ (case insensitive search)
  • ‘=’ (exact equality)
  • ‘~=' (regular expression)
Notes
fqdn is a search-only field.

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

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
• awsrole53taskgroup
• awsuser
• bulkhost
• certificate:authservice
• ciscoise:notificationrule
• dhcpfailover
• dhcpoptionspace
• discovery:device
• discovery:deviceinterface
• discovery:memberproperties
• dns64group
• dtc:lbdn
• dtc:monitor:http
• dtc:monitor:icmp
• dtc:monitor:pdp
• dtc:monitor:snmp
• dtc:monitor:tcp
• dtc:pool
• dtc:server
• dtc:topology
• filterfingerprint
• filtermac
• filtermac
• filteroption
• filterrelayagent
• fingerprint
• fixedaddress
• fixedaddresstemplate
• ftpuser
• grid:dhcpproperties
• grid:dns
• grid:filedistribution
• grid:servicerestart:group
• grid:threatanalytics
• ipv6dhcoptionspace
• ipv6fixedaddress
• ipv6fixedaddresstemplate
• ipv6network
• ipv6networkcontainer
• ipv6networktemplate
• ipv6range
• ipv6rangetemplate
• ipv6sharednetwork
• kerberoskey
• ldap_auth_service
• lease
• macfilteraddress
• member
• member:dhcpproperties
• member:dns
• member:filedistribution
• member:threatprotection
• mgm:grid
• mgm:member
• mgm:network
• mgm:networkview
• msserver:adsites:domain
• msserver:adsites:site
• mssuperscope
• namedacl
• natgroup
• network
• record:rpz:cname:ipaddress
• record:rpz:cname:ipaddressdn
• record:rpz:mx
• record:rpz:naptr
• record:rpz:ptr
• record:rpz:srv
• record:rpz:txt
• record:rrsig
• record:srv
• record:tlsa
• record:txt
• rir:organization
• roaminghost
• ruleset
• sharednetwork
• sharedrecord:a
• sharedrecord:aaaa
• sharedrecord:cname
• sharedrecord:mx
• sharedrecord:srv
• sharedrecord:txt
• sharedrecordgroup
• snmpuser
• tacacsplus:authservice
• tftpfiledir
• threatanalytics:moduleset
• threatprotection:profile
• upgradegroup
• vdiscoverytask
• view

Search

The field is available for search via

• ‘=’ (exact equality)

Notes

objtype is a search-only field.
**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

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

**Notes**

search_string is a search-only field.

### Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>duid</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>fqdn</td>
<td>String</td>
<td>: := ~</td>
</tr>
<tr>
<td>mac_address</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>objtype</td>
<td>String</td>
<td>=</td>
</tr>
<tr>
<td>search_string</td>
<td>String</td>
<td>: := ~</td>
</tr>
</tbody>
</table>

### 3.205 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: sharednetwork/5ldHdvcmskMTEuMC4:sharedname

### Restrictions

The object cannot be managed on the 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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>networks</td>
<td></td>
</tr>
</tbody>
</table>

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).
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 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

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

**Notes**
comment is part of the base object.

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).

### ddnsserver_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

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

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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*).

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**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**

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**
dhcp_utilization cannot be updated.
dhcp_utilization cannot be written.

**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**
dhcp_utilization_status cannot be updated.
dhcp_utilization_status cannot be written.

**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*. 
**dynamic_hosts**

*dynamic_hosts*

The total number of DHCP leases issued for the shared network.

**Type**

Unsigned integer.

**Notes**

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_pxelease_time**

*enable_pxelease_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**

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**

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**

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.
lease_scavenge_time is associated with the field `use_lease_scavenge_time` (see `use flag`).

**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**

The Microsoft Active Directory user related information.

**Type**

A/An *Active Directory User Data* struct.

**Search**

The field is not available for search.

**Notes**

ms_ad_user_data cannot be updated.

ms_ad_user_data cannot be written.

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

Notes
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
network_view is part of the base object.
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:

```json
[{
    "_ref": "network/ZG5zLm5ldHdvcmskMTAuMwLvMTYvMAM",
}]
```

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:
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**

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
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
The number of static DHCP addresses configured in the shared network.

Type
Unsigned integer.

Search
The field is not available for search.

Notes
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**
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.
<table>
<thead>
<tr>
<th><strong>use_bootfile</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_bootfile</strong></td>
</tr>
<tr>
<td>Use flag for: bootfile</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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<table>
<thead>
<tr>
<th><strong>use_bootserver</strong></th>
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<td><strong>use_bootserver</strong></td>
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<tr>
<td>Use flag for: bootserver</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
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</table>

<table>
<thead>
<tr>
<th><strong>use_ddns_generate_hostname</strong></th>
</tr>
</thead>
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<tr>
<td><strong>use_ddns_generate_hostname</strong></td>
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<tr>
<td>Use flag for: ddns_generate_hostname</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
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<tr>
<td>The field is not available for search.</td>
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<table>
<thead>
<tr>
<th><strong>use_ddns_ttl</strong></th>
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</thead>
<tbody>
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<td><strong>use_ddns_ttl</strong></td>
</tr>
<tr>
<td>Use flag for: ddns_ttl</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>
Create
The default value is `False`.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ddns_update_fixed_addresses</th>
</tr>
</thead>
</table>

Use flag for: `ddns_update_fixed_addresses`

**Type**

`Bool`

Create
The default value is `False`.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ddns_use_option81</th>
</tr>
</thead>
</table>

Use flag for: `ddns_use_option81`

**Type**

`Bool`

Create
The default value is `False`.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_deny_bootp</th>
</tr>
</thead>
</table>

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 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 flag for: _logic_filter_rules_

**Type**

Bool.

Create
The default value is _False_.

Search
The field is not available for search.

**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 flag for: options

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**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 flag for: update_dns_on_lease_renewal

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authority</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootfile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>bootserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
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<td>N</td>
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<tr>
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<td>ddns_update_fixed_addresses</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>ddns_use_option81</td>
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<tr>
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<td>Bool</td>
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<td>dynamic_hosts</td>
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<td>extattrs</td>
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<td>ignore_dhcp_option_list_request</td>
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<td>logic_filter_rules</td>
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<td>ms_ad_user_data</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>name</td>
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<td>[obj]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>nextserver</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>options</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>pxe_lease_time</td>
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<td>N/A</td>
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<td>static_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
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</tr>
<tr>
<td>total_hosts</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>update_dns_on_lease_renewal</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_authority</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootfile</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_bootserver</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
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<tr>
<td>use_ddns_generate_hostname</td>
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<td>use_ddns_ttl</td>
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<td>use_ddns_use_option81</td>
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<tr>
<td>use_deny_bootp</td>
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<td>use_enable_ddns</td>
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<td>use_ignore_client_identifier</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ignore_id</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
</tr>
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</tr>
<tr>
<td>use_logic_filter_rules</td>
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<td>N/A</td>
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<td>use_nextserver</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_options</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_pxe_lease_time</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_update_dns_on_lease_renewal</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.206 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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv4addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
</tbody>
</table>

**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
• `::=` (case insensitive search)
• `:=` (exact equality)
• `~=` (regular expression)

**disable**

Determine 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**

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**

dns_name cannot be updated.
dns_name cannot be written.

**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**

The *IPv4 Address* of the shared record.

**Type**

String.

**Create**

The field is required on creation.

**Search**

The field is available for search via

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

**Notes**

ipv4addr is part of the base object.

**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

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

**Notes**

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**
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.
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.

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

The object does not support the following operations:

- CSV export

The object cannot be managed on the Cloud Platform members.

These fields are actual members of the object; 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipv6addr</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
</tbody>
</table>
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

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

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

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
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

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

**Notes**

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

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

Notes
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
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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>ext/N/A</td>
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<td>N</td>
<td>N/A</td>
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<td>=~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=~</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>ttl</td>
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<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

### 3.208 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:sname/ZG5zLmJpbmRfdHh0U2Ig:some.name/sharedgroup

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

**Notes**
canonical is part of the base object.

**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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**disable**

Determine 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**

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**

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

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

**Notes**

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**
shared_record_group is part of the base object.

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
</table>

**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*).

<table>
<thead>
<tr>
<th>use_ttl</th>
</tr>
</thead>
</table>

**use_ttl**
Use flag for: ttl

**Type**
Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>canonical</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
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<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>shared_record_group</td>
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<td>Y</td>
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<td>N/A</td>
</tr>
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<td>N</td>
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<tr>
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<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.209 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 the 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*.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>mail_exchanger</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>preference</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
</tbody>
</table>
**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
- `':='` (case insensitive search)
- `'='` (exact equality)
- `'~='` (regular expression)

**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**
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
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
- ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
mail_exchanger is part of the base object.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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

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

Notes

name is part of the base object.

<table>
<thead>
<tr>
<th>preference</th>
</tr>
</thead>
</table>

**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

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

Notes

preference is part of the base object.

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**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**

shared_record_group is part of the base object.

**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 flag for: ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
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<td>ext</td>
</tr>
<tr>
<td>mail_exchanger</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>preference</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.210 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 the 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, weight**.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>port</td>
<td></td>
</tr>
<tr>
<td>priority</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
<tr>
<td>target</td>
<td></td>
</tr>
<tr>
<td>weight</td>
<td></td>
</tr>
</tbody>
</table>

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

**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**
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**
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

ame


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

**Notes**
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**
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
• ‘=’ (exact equality)
• ‘<=’ (less than search)
• ‘>=’ (greater than search)

Notes
priority is part of the base object.

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
shared_record_group is part of the base object.

target

The target of the shared 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

• ‘=’ (exact equality)
• ‘~=' (regular expression)

Notes
target is part of the base object.
**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.

**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

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

weight is part of the base object.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_target</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>priority</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>target</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>weight</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>&lt;= &gt;</td>
</tr>
</tbody>
</table>

### 3.211 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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>shared_record_group</td>
<td></td>
</tr>
<tr>
<td>text</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

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

Notes
name is part of the base object.
### 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**
shared_record_group is part of the base object.

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

**Notes**
text is part of the base object.

### 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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>shared_record_group</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>text</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ttl</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_ttl</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.212 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: sharedrecordgroup/ZG5zLmJpbnRfY25h:srg_name
Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Notes**

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.*

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
</tr>
<tr>
<td>The name of this shared record group.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• <code>:=</code> (case insensitive search)</td>
</tr>
<tr>
<td>• <code>=</code> (exact equality)</td>
</tr>
<tr>
<td>• <code>~=</code> (regular expression)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>name is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>record_name_policy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>record_name_policy</strong></td>
</tr>
<tr>
<td>The record name policy of this shared record group.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>record_name_policy is associated with the field <em>use_record_name_policy</em> (see <em>use flag</em>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_record_name_policy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_record_name_policy</strong></td>
</tr>
</tbody>
</table>
Use flag for: record_name_policy

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**zone_associations**

**zone_associations**

The list of zones associated with this shared record group.

**Type**

String array.

**Create**

The default value is *empty*.

**Search**

The field is not available for search.

---

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>record_name_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_record_name_policy</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>zone_associations</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---


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/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNILjI1Mg: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 the 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 retuned 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
resource is part of the base object.
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**
value is part of the base object.
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**
value_type is part of the base object.
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**

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**

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**

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

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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>value</td>
<td>struct</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>value_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>group_by_values</td>
<td>[struct]</td>
<td>=</td>
</tr>
<tr>
<td>group_bys</td>
<td>[struct]</td>
<td>=</td>
</tr>
<tr>
<td>query_items</td>
<td>[struct]</td>
<td>=</td>
</tr>
<tr>
<td>smart_folder</td>
<td>String</td>
<td>=</td>
</tr>
</tbody>
</table>

3.214 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: smartfolder:global/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGlzZm8uLmZhbHNILjI1Mg:SF1
Restrictions

The object does not support the following operations:

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

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

comment

comment
The global Smart Folder descriptive comment.

Type
String.

Create
The default value is empty.

Search
The field is available for search via

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

Notes
comment is part of the base object.

group_bys

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

Notes
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:

```json
[ { '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 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 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”.
- **isShortcut** (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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>group_bys</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>query_items</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**3.215 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 an 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/ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluyZm8uLmZhbHNILjI1Mg: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 the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

#### comment

**comment**

The personal Smart Folder descriptive comment.

**Type**

String.

**Create**

The default value is **empty**.

**Search**

The field is available for search via

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

**Notes**

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

Determines whether the personal Smart Folder is a shortcut.

**Type**

Bool.

**Search**

The field is available for search via

- `=' (exact equality)

**Notes**

is_shortcut is part of the base object.

is_shortcut cannot be updated.

is_shortcut cannot be written.

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

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

**Notes**

name is part of the base object.

query_items

The personal Smart Folder filter queries.

**Type**

A/An *Smart Folder query item structure* struct array.

**Create**
The default value is:

```json
[ { '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”.
- **isShortcut** (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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>group_bys</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>isShortcut</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>query_items</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

---

**3.216 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 the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_password</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>authentication_protocol</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>privacy_password</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>privacy_protocol</td>
<td></td>
</tr>
</tbody>
</table>

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

The authentication protocol to be used for this user.

Type
String.

Valid values are:

- MD5
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
- `:=` (case insensitive search)
- `=` (exact equality)
- `~=` (regular expression)

Notes
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

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

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

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

Notes
name is part of the base object.

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**

The privacy protocol to be used for this user.

**Type**
String.

**Valid values are:**
- AES
- DES
- NONE

**Create**
The field is required on creation.

**Search**
The field is not available for search.

## Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_password</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>authentication_protocol</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>privacy_password</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>privacy_protocol</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

### 3.217 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 following components:
• The name of the TACACS+ authentication service.

Example: tacacsplus:authservice/ZG5zLm5ldHdvcmtfdmlldyQxMTk:TACACSAuth

## Restrictions

The object does not support the following operations:

• Scheduling
• CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>servers</td>
<td></td>
</tr>
</tbody>
</table>

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

Notes
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**
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

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

**Notes**
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.
**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>acct_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>acct_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auth_retries</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auth_timeout</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>servers</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**3.218 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: taxii/ZGldHdvcmtfdmIIdyQxMTk:taxii2

**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 the 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`.

**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**

The *IPv4 Address* of the Grid member.

**Type**

String.

**Search**

The field is available for search via

- `=' (exact equality)
- `~=' (regular expression)
Notes
ipv4addr is part of the base object.
ipv4addr cannot be updated.
ipv4addr cannot be written.

ipv6addr

The IPv6 Address of the Grid member.

Type
String.

Search
The field is available for search via
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
ipv6addr is part of the base object.
ipv6addr cannot be updated.
ipv6addr cannot be written.

name

The name of the Taxii Member.

Type
String.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

Notes
name is part of the base object.
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.

---

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_service</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv4addr</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>ipv6addr</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>taxii_rpz_config</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---

**3.219 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 a Virtual TFTP root directories and browsing the directories contents.

---

**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/ ZG5zLm9wdGlvbI9kZWZpbml0aW9uJGluZm8uLmZhbHNlJjI1Mg:dir1
Restrictions

The object does not support the following operations:

- Scheduling
- CSV export

The object cannot be managed on the 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:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
</tr>
</tbody>
</table>

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

directory is part of the base object.
directory cannot be updated.

is_synced_to_gm

is_synced_to_gm

Determines whether the TFTP entity is synced to Grid Master.

Type

Bool.

Search

The field is not available for search.
Notes
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
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
Notes
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

type is part of the base object.
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.
Field List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>directory</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>is_synced_to_gm</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>last_modify</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>vtftp_dir_members</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Search-only Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>recursive</td>
<td>Bool</td>
<td>=</td>
</tr>
</tbody>
</table>


The threat analytics module set represents the installation or update module information.

Object Reference

References to threatanalytics:moduleset are object references.

The name part of the threat analytics module set object reference has the following components:

• The version number of the threat analytics module set

Example: threatanalytics:moduleset/ ZG5zLm9wdGlvb19kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:184845

Restrictions

The object does not support the following operations:

• Create (insert)
• Delete
• Modify (update)
• CSV export

The object cannot be managed on the 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): version.
**version**

The version number of the threat analytics module set.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**
version is part of the base object.
version cannot be updated.
version cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=, ~</td>
</tr>
</tbody>
</table>

**3.221 threatanalytics:whitelist : Threat analytics whitelist object.**

The threat analytics white list object contains trusted domain on which NIOS allows DNS traffic.

**Object Reference**

References to threatanalytics:whitelist are *object references.*

The *name* part of the threat analytics whitelist object reference has the following components:
- The fully-qualified domain name (FQDN) of the threat analytics whitelist

**Example:** threatanalytics:whitelist/2ZG5zLm9wdGlbVbl9kZWZpbml0aW9uJGluZm8uLmZhbHNlLjI1Mg:whitelist.com

**Restrictions**
The object does not support the following operations:
- Global search (searches via *the search object*)
- CSV export

The object cannot be managed on the 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**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

*comment*

The descriptive comment for the threat analytics whitelist.

**Type**

String.

**Create**

The default value is *empty*.

**Search**

The field is available for search via

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

**Notes**

*comment* is part of the base object.

**disable**

*disable*

Determines whether the threat analytics whitelist is disabled.

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

**Notes**

disable is part of the base object.
fqdn

The FQDN of the threat analytics whitelist.

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

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

Notes

fqdn is part of the base object.

---

type

The type of the threat analytics whitelist.

Type

String.

Valid values are:

- BOTH
- CUSTOM
- SYSTEM

Search

The field is available for search via

- `=` (exact equality)

Notes

type cannot be updated.

type cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>fqdn</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.222 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:** threatinsight:cloudclient/ZG5zLm9wdGlvbl9kZWZpbml0aW9uW9uJGluZm8uLmZhbHNlLjI1Mg:cloudclient

#### 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 the 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`.

**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.

<table>
<thead>
<tr>
<th>enable</th>
</tr>
</thead>
</table>

**enable**

Determines whether the Threat Insight in Cloud Client is enabled.

**Type**

BaseUrl.

**Create**

The default value is False.

**Search**

The field is not available for search.

**Notes**

enable is part of the base object.

<table>
<thead>
<tr>
<th>force_refresh</th>
</tr>
</thead>
</table>

**force_refresh**

Force a refresh if at least one RPZ is configured.

**Type**

BaseUrl.

**Create**

The default value is undefined.

**Search**

The field is not available for search.

**Notes**

force_refresh is not readable.

<table>
<thead>
<tr>
<th>interval</th>
</tr>
</thead>
</table>

**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
interval is part of the base object.

token

The Cloud Client authentication token.

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
token is not readable.

Function Calls

request_cloud_client_token

Request the Cloud Client authentication token.

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

Input fields
e-mail ( String. ). This parameter is mandatory. The Cloud Client e-mail address.

password ( String. ). This parameter is mandatory. The Cloud Client password.

Output fields
token ( String. ) The Cloud Client authentication token.

test_cloud_client_connectivity

Test connectivity of the Threat Insight Cloud Client.

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

Input fields
token ( String. ) The Cloud Client authentication token. If not set, the token from the Cloud Client object is used instead.
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.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>blacklist_rpz_list</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>force_refresh</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>interval</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>token</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.223 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:** threatprotection:grid:rule/YXRwLmNsdXN0yb3BlcnRpZXMkMA: UDPAttackCounterMeasures:DDOSPrevention%3A:4916

### 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 the 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**.
The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>template</td>
<td></td>
</tr>
</tbody>
</table>

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

---

**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**

The description of the custom rule.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
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**

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

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

**Notes**

name is part of the base object.

name cannot be updated.

name cannot be written.
**ruleset**

The version of the ruleset the custom rule assigned to.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
ruleset is part of the base object.
ruleset cannot be updated.
ruleset cannot be written.

**sid**

The Rule ID.

**Type**
Unsigned integer.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
sid is part of the base object.
sid cannot be updated.
sid cannot be written.

**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

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**

- type cannot be updated.
- type cannot be written.

#### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allowed_actions</td>
<td>[Enum]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>category</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>config</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>description</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_factory_reset_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>ruleset</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>sid</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>template</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>


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:** threatprotection:profile/YXRwLmNsdXN0ZXJfYXRwX3Byb3B1cnRpZXMkMA:profile

**Restrictions**

The object does not support the following operations:

- Scheduling

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

The comment for the Threat Protection profile.

**Type**

String.

**Create**

The default value is empty.

**Search**

The field is available for search via

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

**Notes**

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
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
  • `:=` (case insensitive search)
  • `=` (exact equality)
  • `~=` (regular expression)

Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>source_member</th>
</tr>
</thead>
</table>

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
source_member cannot be updated.
source_member is not readable.

<table>
<thead>
<tr>
<th>source_profile</th>
</tr>
</thead>
</table>

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
source_profile cannot be updated.
source_profile is not readable.
<table>
<thead>
<tr>
<th><strong>use_current_ruleset</strong></th>
</tr>
</thead>
</table>

**use_current_ruleset**

Use flag for: `current_ruleset`

**Type**

`Bool`.

**Create**

The default value is `False`.

**Search**

The field is not available for search.

<table>
<thead>
<tr>
<th><strong>use_disable_multiple_dns_tcp_request</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>use_events_per_second_per_rule</strong></th>
</tr>
</thead>
</table>

**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.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>current_ruleset</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>disable_multiple_dns_tcp_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>events_per_second_per_rule</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>&lt;= &gt;</td>
</tr>
<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>members</td>
<td>[String]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>source_member</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>source_profile</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_current_ruleset</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_disable_multiple_dns_tcp_request</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_events_per_second_per_rule</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>


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/ZG5zLm5ldHdvcmtdmldyQxMThkg1u0MQ:rule

#### 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 the 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**
profile is part of the base object.
profile cannot be updated.
profile cannot be written.

<table>
<thead>
<tr>
<th>rule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>rule</strong></td>
</tr>
<tr>
<td>The rule object name.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>rule is part of the base object.</td>
</tr>
<tr>
<td>rule cannot be updated.</td>
</tr>
<tr>
<td>rule cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>sid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>sid</strong></td>
</tr>
<tr>
<td>The snort rule ID.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>sid cannot be updated.</td>
</tr>
<tr>
<td>sid cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>use_config</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_config</strong></td>
</tr>
<tr>
<td>Use flag for: config</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**use_disable**

**Use flag for:** disable

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>config</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>profile</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>rule</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>sid</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>use_config</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.226 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: threatprotection:rule/ZG5zLm5IdHdvcmtdmlldyQxMTk:somerulename

### 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 the 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**.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>config</strong></td>
<td>The threat protection rule configuration.</td>
</tr>
<tr>
<td><strong>disable</strong></td>
<td>Determines if the rule is enabled or not for the member.</td>
</tr>
<tr>
<td><strong>member</strong></td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

...
The name of the Threat protection member.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
member is part of the base object.
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**
rule is part of the base object.
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**
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>config</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>rule</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>sid</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>use_config</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.227 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:** threatprotection:rulecategory/YXRwLmNsdXN0yb3BlcnRpZXMkMA: UDPAttackCounterMeasures:BlockingFloodTechniques

**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 the 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*.

**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**

is_factory_reset_enabled cannot be updated.

is_factory_reset_enabled cannot be written.
### name

**The name of the rule category.**

**Type**

String.

**Search**

The field is available for search via

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

**Notes**

name is part of the base object.

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**

ruleset is part of the base object.

ruleset cannot be updated.

ruleset cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>is_factory_reset_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>:= ~</td>
</tr>
<tr>
<td>ruleset</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

This object represents 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:** threatprotection:ruleset/YXRwLmNsdXN0ZXJfYXRwX3Byb3BlcnRpZXMkMA:42

**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 the 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, 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
add_type is part of the base object.
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**
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
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**do_not_delete**

**do_not_delete**
Determines if the ruleset will not be deleted during upgrade.

**Type**
Bool.

**Create**
The default value is *undefined*. 
is_factory_reset_enabled

Determines if factory reset is enabled for this ruleset.

Type

Bool.

Search

The field is not available for search.

Notes

is_factory_reset_enabled cannot be updated.

is_factory_reset_enabled cannot be written.

used_by

The users of the ruleset.

Type

String array.

Search

The field is not available for search.

Notes

used_by cannot be updated.

used_by cannot be written.

version

The ruleset version.

Type

String.

Search

The field is available for search via

- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
version is part of the base object.
version cannot be updated.
version cannot be written.

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>add_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>added_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>do_not_delete</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>is_factory_reset_enabled</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>used_by</td>
<td>[String]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

3.229 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:** threatprotection:ruletemplate/YXRwLmNsdXN0yb3BlcnRpZXMkMA: UDPAttackCounterMeasures:DDOSPrevention:4916

### 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 the 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.

#### allowed_actions

**allowed_actions**
The list of allowed actions of the rule template.

**Type**
Enum values array.

**Valid values are:**
- ALERT
- DROP
- PASS

**Search**
The field is not available for search.

**Notes**
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**
category cannot be updated. 
category cannot be written.
**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**
default_config cannot be updated.
default_config cannot be written.

**description**

The description of the rule template.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

**Notes**
description cannot be updated.
description cannot be written.

**name**

The name of the rule template.

**Type**
String.

**Search**
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)
Notes
name is part of the base object.
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
ruleset is part of the base object.
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
sid is part of the base object.
sid cannot be updated.
sid cannot be written.

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 the 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**

member is part of the base object.

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**

stat_infos is part of the base object.

stat_infos cannot be updated.

stat_infos cannot be written.

**Fields List**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>stat_infos</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.231 upgradegroup : Upgrade group object.

To minimize the impact of Grid upgrades on the system operations one can organize members into upgrade groups and schedule their software distributions. The upgrade group object provides configuration for upgrade and software distribution for particular 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: upgradegroup/ ZG5zLm9wdGlvbl9kZWZpbml0aW9uJGluZm8uLmZhbHNILjI1Mg:group1

Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**comment**

The upgrade group descriptive comment.

Type

String.

Create

The default value is empty.

Search

The field is available for search via

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

Notes

comment is part of the base object.
**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**

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**

The time of the next scheduled distribution.

**Type**
Timestamp.

**Create**
The default value is *empty*.

**Search**
The field is not available for search.
**members**

The upgrade group members.

**Type**

A/An *Upgrade group member structure* struct array.

**Create**

The default value is:

```name = ''```

**Search**

The field is not available for search.

---

**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

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

**Notes**

name is part of the base object.

---

**time_zone**

The time zone for scheduling operations.

**Type**

String.

**Valid values are:**

- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
• (UTC + 10:00) Guam
• (UTC + 10:00) Hobart
• (UTC + 10:00) Melbourne, Victoria
• (UTC + 10:00) Vladivostok
• (UTC + 11:00) Magadan
• (UTC + 11:00) Solomon Islands
• (UTC + 12:00) Anadyr
• (UTC + 12:00) Auckland
• (UTC + 12:00) Fiji
• (UTC + 12:00) Marshall Islands
• (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
• (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
• (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
• (UTC + 1:00) Sarajevo, Skopje, Sofia, Warsaw, Zagreb
• (UTC + 2:00) Athens, Vilnius
• (UTC + 2:00) Bucharest
• (UTC + 2:00) Cairo
• (UTC + 2:00) Harare
• (UTC + 2:00) Helsinki
• (UTC + 2:00) Jerusalem
• (UTC + 2:00) Kaliningrad
• (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
• (UTC + 3:00) Moscow, St. Petersburg, Volgograd
• (UTC + 3:00) Nairobi
• (UTC + 3:30) Tehran
• (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Search
The field is not available for search.

Notes
time_zone cannot be updated.
time_zone cannot be written.

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

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


The time of the next scheduled upgrade.

**Type**

Timestamp.

**Create**

The default value is *empty*.

**Search**

The field is not available for search.

---

### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>distribution_dependent_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>members</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>time_zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_dependent_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---

### 3.232 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 for scheduled upgrade, activation of the latest, 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/ ZG5zLm9wdGlvdI9kZWZpbml0aW9uJGluZm8uLmZhbHNILjJlMg:upgrade

---

### Restrictions

The object does not support the following operations:

- Create (insert)
- Delete
- Global search (searches via *the search object*)
The object cannot be managed on the 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**.

<table>
<thead>
<tr>
<th>active</th>
</tr>
</thead>
<tbody>
<tr>
<td>active</td>
</tr>
<tr>
<td>Determines whether the upgrade schedule is active.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>active is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>start_time</th>
</tr>
</thead>
<tbody>
<tr>
<td>start_time</td>
</tr>
<tr>
<td>The start time of the upgrade.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>start_time is part of the base object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>time_zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>time_zone</td>
</tr>
</tbody>
</table>
The time zone for upgrade start time.

**Type**
String.

**Valid values are:**
- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
- (UTC + 10:00) Guam
- (UTC + 10:00) Hobart
- (UTC + 10:00) Melbourne, Victoria
- (UTC + 10:00) Vladivostok
- (UTC + 11:00) Magadan
- (UTC + 11:00) Solomon Islands
- (UTC + 12:00) Anadyr
- (UTC + 12:00) Auckland
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- (UTC + 12:00) Marshall Islands
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- (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
- (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
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- (UTC + 2:00) Harare
- (UTC + 2:00) Helsinki
- (UTC + 2:00) Jerusalem
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- (UTC + 3:00) Moscow, St. Petersburg, Volgograd
- (UTC + 3:00) Nairobi
- (UTC + 3:30) Tehran
- (UTC + 4:00) Baku
- (UTC + 4:00) Dubai
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• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
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• (UTC - 3:00) Brasilia
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• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
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• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Search
The field is not available for search.

Notes
time_zone is part of the base object.
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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>active</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>start_time</td>
<td>Timestamp</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>time_zone</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_groups</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.233 **upgradestatus** : The upgrade status object.

The Upgrade Status object is used to view the upgrade status of the 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:

- The name of the element of the Grid, the upgrade status of which was requested.

Example: upgradestatus/Li51e2VyX3Byb2ZpbGUkJMI: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 the 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
allow_distribution cannot be updated.
allow_distribution cannot be written.

allow_distribution_scheduling

Determines if distribution scheduling is allowed.

Type
Bool.

Search
The field is not available for search.

Notes
allow_distribution_scheduling cannot be updated.
allow_distribution_scheduling cannot be written.

allow_upgrade

Determines if upgrade is allowed for the Grid.

Type
Bool.

Search
The field is not available for search.

Notes
allow_upgrade cannot be updated.
allow_upgrade cannot be written.

allow_upgrade_cancel

Determines if the Grid is allowed to cancel an upgrade.

Type
Bool.

Search
The field is not available for search.

Notes
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
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
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
allow_upgrade_scheduling cannot be updated.
allow_upgrade_scheduling cannot be written.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Search</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_upgrade_test</td>
<td>Determines if the Grid is allowed to test an upgrade.</td>
<td>Bool.</td>
<td>Not available</td>
<td>allow_upgrade_test cannot be updated. allow_upgrade_test cannot be written.</td>
</tr>
<tr>
<td>allow_upload</td>
<td>Determine if the Grid is allowed to upload a build.</td>
<td>Bool.</td>
<td>Not available</td>
<td>allow_upload cannot be updated. allow_upload cannot be written.</td>
</tr>
<tr>
<td>alternate_version</td>
<td>The alternative version.</td>
<td>String.</td>
<td>Not available</td>
<td>alternate_version is part of the base object. alternate_version cannot be updated. alternate_version cannot be written.</td>
</tr>
</tbody>
</table>
**comment**

The human readable comment for upgrade group or virtual node.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
- comment is part of the base object.
- comment cannot be updated.
- comment cannot be written.

**current_version**

The current version.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
- current_version is part of the base object.
- current_version cannot be updated.
- current_version cannot be written.

**current_version_summary**

The current version summary with regards to 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**
- 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**

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**

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**

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**

distribution_version is part of the base object.
distribution_version cannot be updated.
distribution_version cannot be written.

### distribution_version_summary

**distribution_version_summary**

The distribution version summary with regards to 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**

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
**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**

grid_state is part of the base object.

grid_state cannot be updated.

grid_state cannot be written.
**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**

group_state is part of the base object.
group_state cannot be updated.
group_state cannot be written.

**ha_status**

The status of HA pair.

**Type**

String.

**Valid values are:**

- ACTIVE
- NOT_CONFIGURED
- PASSIVE

**Search**

The field is not available for search.

**Notes**
ha_status is part of the base object.
ha_status cannot be updated.
ha_status cannot be written.

<table>
<thead>
<tr>
<th>hotfixes</th>
</tr>
</thead>
</table>

**hotfixes**
The list of hotfixes.

**Type**
A/An *Upgrade process hotfix* struct array.

**Search**
The field is not available for search.

**Notes**
hotfixes is part of the base object.
hotfixes cannot be updated.
hotfixes cannot be written.

<table>
<thead>
<tr>
<th>ipv4_address</th>
</tr>
</thead>
</table>

**ipv4_address**
The *IPv4 Address* of virtual node or physical one.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
ipv4_address is part of the base object.
ipv4_address cannot be updated.
ipv4_address cannot be written.

<table>
<thead>
<tr>
<th>ipv6_address</th>
</tr>
</thead>
</table>

**ipv6_address**
The *IPv6 Address* of virtual node or physical one.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
ipv6_address is part of the base object.
ipv6_address cannot be updated.
ipv6_address cannot be written.

**member**

The member that participates in upgrade process.

**Type**
String.

**Search**
The field is available for search via
- `=` (exact equality)

**Notes**
member is part of the base object.
member cannot be updated.
member cannot be written.

**message**

The Grid message.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
message is part of the base object.
message cannot be updated.
message cannot be written.

**pnode_role**

The physical node status in HA pair.

**Type**
String.

**Search**
The field is not available for search.
Notes
pnode_role is part of the base object.

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**
reverted is part of the base object.

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**
status_time cannot be updated.

status_time cannot be written.

**status_value**

**status_value**
The 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
status_value is part of the base object.
status_value cannot be updated.
status_value cannot be written.

status_value_update_time

status_value_update_time
The timestamp when status was updated.

Type
Timestamp.

Search
The field is not available for search.

Notes
status_value_update_time is part of the base object.
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
steps is part of the base object.
steps cannot be updated.
steps cannot be written.
steps_completed

The number of steps done.

Type
Integer.

Search
The field is not available for search.

Notes
steps_completed is part of the base object.
steps_completed cannot be updated.
steps_completed cannot be written.

steps_total

The number of total steps of upgrade process.

Type
Integer.

Search
The field is not available for search.

Notes
steps_total is part of the base object.
steps_total cannot be updated.
steps_total cannot be written.

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
subelement_type cannot be updated.
subelement_type cannot be written.

subelements_completed

subelements_completed
The number of subelements that have accomplished upgrade.

Type
Integer.

Search
The field is not available for search.

Notes
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
The subelements number of a certain group, virtual node, or the Grid.

Type
Integer.

Search
The field is not available for search.
Notes
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**
type is part of the base object.
type cannot be updated.
type cannot be written.

**upgrade_group**

**upgrade_group**
The upgrade group that participates in upgrade process.

**Type**
String.

**Search**
The field is available for search via
- ‘=’ (exact equality)

**Notes**
upgrade_group is part of the base object.
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**

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**

upgrade_state is part of the base object.

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**
upgrade_test_status is part of the base object.
upgrade_test_status cannot be updated.
upgrade_test_status cannot be written.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>upload_version</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version</td>
<td>The version that is uploaded.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>upload_version is part of the base object.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version</td>
<td>upload_version cannot be updated.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version</td>
<td>upload_version cannot be written.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version_summary</td>
<td>The upload version summary with regards to the ‘type’ requested. This field can be requested for the Grid, a certain group that has virtual nodes as subelements, or overall group status.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search</td>
<td>The field is not available for search.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>upload_version_summary cannot be updated.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upload_version_summary</td>
<td>upload_version_summary cannot be written.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fields List**

Continued on next page
Table 3.38 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_distribution_scheduling</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade_cancel</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade_pause</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade_resume</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade_scheduling</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_upgrade_test</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>allow_upload</td>
<td>Bool</td>
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<td>N</td>
<td>N/A</td>
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<td>alternate_version</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
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<td>Y</td>
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<td>N/A</td>
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<td>current_version</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>current_version_summary</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>distribution_schedule_active</td>
<td>Bool</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_schedule_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>distribution_version_summary</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>element_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>grid_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>group_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ha_status</td>
<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>hotfixes</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv4_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>ipv6_address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>nnode_role</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>reverted</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>status_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>status_value</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>status_value_update_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>steps</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>steps_completed</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>steps_total</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>subelement_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>subelements_completed</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subelements_status</td>
<td>[obj]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>subelements_total</td>
<td>Integer</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>upgrade_group</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>upgrade_schedule_active</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>upgrade_test_status</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>upload_version</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>upload_version_summary</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.234 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/Li51c2Vyb2ZpbGUKMjI: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 the 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**

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**
admin_group cannot be updated.
admin_group cannot be written.

**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**
days_to_expire cannot be updated.
days_to_expire cannot be written.

**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**

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**

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**

List of Admin Group objects that the current user is mapped to.

**Type**

String array.

**Search**

The field is not available for search.

**Notes**

grid_admin_groups cannot be updated.

grid_admin_groups cannot be written.

---

**last_login**

---
The timestamp when the admin last logged in.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**
last_login cannot be updated.
last_login cannot be written.

<table>
<thead>
<tr>
<th>lb_tree_nodes_at_gen_level</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>lb_tree_nodes_at_last_level</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>max_count_widgets</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

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
name is part of the base object.
name cannot be updated.
name cannot be written.

<table>
<thead>
<tr>
<th>old_password</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>password</th>
</tr>
</thead>
</table>

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.

**Valid values are:**
- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
- (UTC + 10:00) Guam
- (UTC + 10:00) Hobart
- (UTC + 10:00) Melbourne, Victoria
- (UTC + 10:00) Vladivostok
- (UTC + 11:00) Magadan
- (UTC + 11:00) Solomon Islands
- (UTC + 12:00) Anadyr
- (UTC + 12:00) Auckland
- (UTC + 12:00) Fiji
- (UTC + 12:00) Marshall Islands
- (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
- (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
• (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
• (UTC + 1:00) Sarajevo, Skopje, Sofija, Warsaw, Zagreb
• (UTC + 2:00) Athens, Vilnius
• (UTC + 2:00) Bucharest
• (UTC + 2:00) Cairo
• (UTC + 2:00) Harare
• (UTC + 2:00) Helsinki
• (UTC + 2:00) Jerusalem
• (UTC + 2:00) Kaliningrad
• (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
• (UTC + 3:00) Moscow, St. Petersburg, Volgograd
• (UTC + 3:00) Nairobi
• (UTC + 3:30) Tehran
• (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

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**

user_type cannot be updated.

user_type cannot be written.
### Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>active_dashboard_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>Timestamp</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>N/A</td>
</tr>
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<td>String</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>old_password</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>password</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
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<td>N</td>
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</tr>
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<td>user_type</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.235 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: vdiscoverytask/ZG5zLmNkaXNjb3ZlcnNldGFzayR0YXNnMTA:task10

### Restrictions

The object does not support the following operations:

- CSV export

The object cannot be managed on the 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, state*.

The following fields are required to create this object:
<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto_consolidate_cloud_ea</td>
<td></td>
</tr>
<tr>
<td>auto_consolidate_managed_tenant</td>
<td></td>
</tr>
<tr>
<td>auto_consolidate_managed_vm</td>
<td></td>
</tr>
<tr>
<td>auto_create_dns_hostname_template</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>auto_create_dns_record_type</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>dns_view_private_ip</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>dns_view_public_ip</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>domain_name</td>
<td>See the field description for more information</td>
</tr>
<tr>
<td>driver_type</td>
<td></td>
</tr>
<tr>
<td>fqdn_or_ip</td>
<td></td>
</tr>
<tr>
<td>identity_version</td>
<td>The field is required when driver_type is OPENSTACK.</td>
</tr>
<tr>
<td>member</td>
<td></td>
</tr>
<tr>
<td>merge_data</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td>The field is required when credentials_type is DIRECT.</td>
</tr>
<tr>
<td>port</td>
<td></td>
</tr>
<tr>
<td>private_network_view_mapping_policy</td>
<td></td>
</tr>
<tr>
<td>protocol</td>
<td></td>
</tr>
<tr>
<td>public_network_view_mapping_policy</td>
<td></td>
</tr>
<tr>
<td>update_metadata</td>
<td></td>
</tr>
<tr>
<td>username</td>
<td>The field is required when credentials_type is DIRECT.</td>
</tr>
</tbody>
</table>

### 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**

*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**

*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**

*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**

*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.

<table>
<thead>
<tr>
<th>auto_create_dns_record_type</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>credentials_type</th>
</tr>
</thead>
</table>

**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**

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**

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

---

**driver_type**

**driver_type**
Type of discovery driver.

**Type**
String.

**Valid values are:**
- AWS
- AZURE
- OPENSTACK
- VMWARE

**Create**
The field is required on creation.

**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)

<table>
<thead>
<tr>
<th>fqdn_or_ip</th>
</tr>
</thead>
</table>

**fqdn_or_ip**
FQDN or IP of the cloud management platform.

**Type**
String.

**Create**
The field is required on creation.

**Search**
The field is available for search via
• ‘=’ (case insensitive search)
• ‘~’ (exact equality)
• ‘~’ (regular expression)

<table>
<thead>
<tr>
<th>identity_version</th>
</tr>
</thead>
</table>

**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)

<table>
<thead>
<tr>
<th>last_run</th>
</tr>
</thead>
</table>

**last_run**
Timestamp of last run.

**Type**
Timestamp.

**Search**
The field is not available for search.

**Notes**

last_run cannot be updated.
last_run cannot be written.

<table>
<thead>
<tr>
<th>member</th>
</tr>
</thead>
</table>

**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)

<table>
<thead>
<tr>
<th>merge_data</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>

**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
• `:=` (case insensitive search)
• `=` (exact equality)
• `~=` (regular expression)

**Notes**

name is part of the base object.

---

**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 field is required on creation.

**Search**

The field is available for search via

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

---

**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**

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**

Connection protocol used for connecting to the cloud management platform.

**Type**
String.

**Valid values are:**
- HTTP
- HTTPS

**Create**
The field is required on creation.

**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)

**scheduled_run**

**scheduled_run**
Schedule setting for cloud discovery task.

**Type**
A/An *Schedule Setting* struct.

**Create**
The default value is *undefined.*
state

Current state of this task.

Type

String.

Valid values are:

- CANCEL_PENDING
- COLLECTION_COMPLETE
- COMPLETE
- ERROR
- IDLE
- READY
- RUNNING
- WARNING

Search

The field is available for search via

- `=` (exact equality)

Notes

state is part of the base object.
state cannot be updated.
state cannot be written.

state_msg

State message of the complete discovery process.

Type

String.

Search

The field is not available for search.

Notes

state_msg cannot be updated.
state_msg cannot be written.
**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**

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**

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

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>allow_unsecured_connection</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto Consolidate_cloud_ea</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto Consolidate_managed_tenant</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto Consolidate_managed_vm</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>auto create dns hostname template</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>credentials_type</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_view_private_ip</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>dns_view_public_ip</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>domain_name</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>driver_type</td>
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<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
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<td>Bool</td>
<td>N</td>
<td>N</td>
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<td>=</td>
</tr>
</tbody>
</table>

Continued on next page
Table 3.39 – continued from previous page

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn_or_ip</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>identity_version</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>last_run</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>member</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>merge_data</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>: = ~</td>
</tr>
<tr>
<td>password</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>port</td>
<td>Unsigned int</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>! &lt; = &gt;</td>
</tr>
<tr>
<td>private_network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>private_network_view_mapping_policy</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>protocol</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>public_network_view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>public_network_view_mapping_policy</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>scheduled_run</td>
<td>struct</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>state</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>state_msg</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>update_dns_view_private_ip</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>update_dns_view_public_ip</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>update_metadata</td>
<td>Bool</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>username</td>
<td>String</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
</tbody>
</table>

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

### 3.236 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: view/ZG5zLm5ldHdvcmtdmlldyQxMTk:default/true

#### 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`.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td></td>
</tr>
</tbody>
</table>

**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 “REFUSE”.

**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).

<table>
<thead>
<tr>
<th>blacklist_redirect_addresses</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>blacklist_redirect_ttl</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>blacklist_rulesets</th>
</tr>
</thead>
</table>

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

#### Notes
comment is part of the base object.
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

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

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 is 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**

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**

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**

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).

<table>
<thead>
<tr>
<th>enable_blacklist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_blacklist</strong></td>
</tr>
<tr>
<td>Determines if the blacklist in a DNS view is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is available for search via</td>
</tr>
<tr>
<td>• ‘=’ (exact equality)</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>enable_blacklist is associated with the field use_blacklist (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_fixed_rrset_order_fqdns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_fixed_rrset_order_fqdns</strong></td>
</tr>
<tr>
<td>Determines if the fixed RRset order FQDN is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>enable_fixed_rrset_order_fqdns is associated with the field use_fixed_rrset_order_fqdns (see use flag).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_match_recursive_only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_match_recursive_only</strong></td>
</tr>
<tr>
<td>Determines if the ‘match-recursive-only’ option in a DNS view is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
</tbody>
</table>
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**

Applies AAAA filtering to a named ACL, or to a list of IPv4/IPv6 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**

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**

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).

| forwar ders |

forwar ders
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
is_default is part of the base object.
is_default cannot be updated.
is_default cannot be written.
### lame_ttl

**lame_ttl**
The number of seconds to cache lame delegations or lame servers.

**Type**
Unsigned integer.

**Create**
The default value is 600.

**Search**
The field is not available for search.

**Notes**
lame_ttl is associated with the field use_lame_ttl (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).

**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
- ‘:=’ (case insensitive search)
Notes
name is part of the base object.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>notify_delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>notify_delay</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>nxdomain_log_query</th>
</tr>
</thead>
<tbody>
<tr>
<td>nxdomain_log_query</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>Search</td>
</tr>
</tbody>
</table>
• ‘=’ (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:

```json
{
  '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
Notes
root_name_server_type is associated with the field use_root_name_server (see use flag).

**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**

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**

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

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

The scavenging settings.

Type
A/An DNS scavenging settings struct.

Create
The default value is:

```python
{
    '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:

```plaintext
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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Default Value</th>
<th>Search Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>use_ddns_patterns_restriction</code></td>
<td>Use flag for: <code>ddns_restrict_patterns_list</code>, <code>ddns_restrict_patterns</code></td>
<td>Bool.</td>
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<td>No</td>
</tr>
<tr>
<td><code>use_ddns_principal_security</code></td>
<td>Use flag for: <code>ddns_restrict_secure</code>, <code>ddns_principal_tracking</code>, <code>ddns_principal_group</code></td>
<td>Bool.</td>
<td>False</td>
<td>No</td>
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<td><code>use_ddns_restrict_protected</code></td>
<td>Use flag for: <code>ddns_restrict_protected</code></td>
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<td>No</td>
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<tr>
<td><code>use_ddns_restrict_static</code></td>
<td>Use flag for: <code>ddns_restrict_static</code></td>
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<td>No</td>
</tr>
</tbody>
</table>
Create
The default value is False.

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>use_dns64</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>use_dnssec</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>use_filter_aaaa</th>
</tr>
</thead>
</table>

**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 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 flag for: forwarders, forward_only

**Type**

Bool.

**Create**

The default value is `False`.

**Search**

The field is not available for search.

### use_lame_ttl

Use flag for: lame_ttl

**Type**

Bool.

**Create**

The default value is `False`.

**Search**

The field is not available for search.

### use_max_cache_ttl

Use flag for: max_cache_ttl

**Type**

Bool.
Create
The default value is \textit{False}.

Search
The field is not available for search.

\textbf{use\_max\_ncache\_ttl}

\textbf{use\_max\_ncache\_ttl}
Use flag for: max\_ncache\_ttl

\textbf{Type}
Bool.

Create
The default value is \textit{False}.

Search
The field is not available for search.

\textbf{use\_nxdomain\_redirect}

\textbf{use\_nxdomain\_redirect}
Use flag for: nxdomain\_redirect, nxdomain\_redirect\_addresses, nxdomain\_redirect\_addresses\_v6, nxdomain\_redirect\_ttl, nxdomain\_log\_query, nxdomain\_rulesets

\textbf{Type}
Bool.

Create
The default value is \textit{False}.

Search
The field is not available for search.

\textbf{use\_recursion}

\textbf{use\_recursion}
Use flag for: recursion

\textbf{Type}
Bool.

Create
The default value is \textit{False}.

Search
The field is not available for search.
<table>
<thead>
<tr>
<th><strong>use_response_rate_limiting</strong></th>
</tr>
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</table>

**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.

<table>
<thead>
<tr>
<th><strong>use_root_name_server</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>use_rpz_drop_ip_rule</strong></th>
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</table>

**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.

<table>
<thead>
<tr>
<th><strong>use_rpz_qname_wait_recursion</strong></th>
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</thead>
</table>

**use_rpz_qname_wait_recursion**
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 flag for: scavenging_settings

**Type**

Bool.

**Create**

The default value is *False*.

**Search**

The field is not available for search.

---

**use_sortlist**

Use flag for: sortlist

**Type**

Bool.

**Create**

The default value is *False*.

**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

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<tr>
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Continued on next page
Table 3.40 – continued from previous page

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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_rpz_drop_ip_rule</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_rpz_qname_wait_recuse</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_scavenging_settings</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_sortlist</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3.237 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: zone_auth/ZG5zLmhvc3QkLl9kZWZhd3QuaDE:zone.com/default

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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn</td>
<td></td>
</tr>
</tbody>
</table>

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

address cannot be updated.
adress cannot be written.
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_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

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**

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**

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**

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

**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**

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**

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**

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**

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**

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`).

<table>
<thead>
<tr>
<th>ddns_restrict_secure</th>
</tr>
</thead>
</table>

**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`).

<table>
<thead>
<tr>
<th>ddns_restrict_static</th>
</tr>
</thead>
</table>

**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`).

<table>
<thead>
<tr>
<th>disable</th>
</tr>
</thead>
</table>

**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
Determine 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**
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**
dns_fqdn cannot be updated.
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**

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**

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**

dns_soa_email cannot be updated.

dns_soa_email cannot be written.

---

**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:

```json
    { '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': 10,
```
'nsec3_salt_max_length': 15,
'nsec3_salt_min_length': 1,
'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
- `=` (exact equality)
- `<=` (less than search)
- `>=` (greater than search)

**Notes**
dnssec_ksk_rollover_date cannot be updated.
dnssec_ksk_rollover_date cannot be written.
**dnssec_zsk_rollover_date**

The rollover date for the Zone Signing Key.

**Type**

Timestamp.

**Search**

The field is available for search via

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

**Notes**

dnssec_zsk_rollover_date cannot be updated.
dnssec_zsk_rollover_date cannot be written.

**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**

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**
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

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

**Notes**

fqdn is part of the base object.

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
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.
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.

This flag is set to True if DNSSEC is enabled for the zone.

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
is_dnssec_enabled cannot be updated.
is_dnssec_enabled cannot be written.

Determines if the zone is DNSSEC signed.

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
is_dnssec_signed cannot be updated.
is_dnssec_signed cannot be written.
**is_multimaster**

*Determines if multi-master DNS is enabled for the zone.*

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

is_multimaster cannot be updated.

is_multimaster cannot be written.

---

**last_queried**

*The time the zone was last queried on.*

**Type**

Timestamp.

**Search**

The field is not available for search.

**Notes**

last_queried cannot be updated.

last_queried cannot be written.

---

**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

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
locked_by cannot be updated.
locked_by cannot be written.

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
mask_prefix cannot be updated.
mask_prefix cannot be written.

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**

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**
member_soa_serials cannot be updated.
member_soa_serials cannot be written.

**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**

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:

```python
eempty
```

**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/ZG54dfgsrDEFSfsLzA:10.0.0.1
- func:getdcnsrecordcreationlist:SERVERS_IN_DOMAIN,10.0.0.1
- func:getdcnsrecordcreationlist:ZONE,auth_zone/ZG54dfgsrDEFSfsLzA:zone.com/default
- func:getdcnsrecordcreationlist:ZONE,zone.com,external

Create
The default value is:
empty

Search
The field is not available for search.

<table>
<thead>
<tr>
<th>ms_ddns_mode</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>ms_managed</th>
</tr>
</thead>
</table>

**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**
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 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
ms_read_only cannot be updated.
ms_read_only cannot be written.

### 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

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


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**
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**
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**
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**
parent cannot be updated.
parent cannot be written.
**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**

The type of the primary server.

**Type**

String.

**Valid values are:**

- External
- Grid
- Microsoft
- None

**Search**

The field is not available for search.

**Notes**

primary_type cannot be updated.

primary_type cannot be written.

---

**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).

<table>
<thead>
<tr>
<th>records_monitored</th>
</tr>
</thead>
</table>

**records_monitored**
Determines if this zone is also monitoring resource records.

**Type**
Bool.

**Search**
The field is not available for search.

**Notes**
records_monitored cannot be updated.
records_monitored cannot be written.

<table>
<thead>
<tr>
<th>restart_if_needed</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>rr_not_queried_enabled_time</th>
</tr>
</thead>
</table>

**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

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:

```python
{ '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

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

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

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

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

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

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

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

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

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:
Use flag for: allow_active_dir

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

Use flag for: allow_query

Type
Bool.

Create
The default value is False.

Search
The field is not available for search.

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.

<table>
<thead>
<tr>
<th>use_ddns_force_creation_timestamp_update</th>
</tr>
</thead>
</table>

Use flag for: ddns_force_creation_timestamp_update

**Type**

Bool.

**Create**
The default value is *False*.

**Search**
The field is not available for search.

<table>
<thead>
<tr>
<th>use_ddns_patterns_restriction</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>use_ddns_principal_security</th>
</tr>
</thead>
</table>

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 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 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 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 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 flag for: scavenging_settings

**Type**
Bool.

Create
The default value is False.

Search
The field is not available for search.

**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**
using_srg_associations cannot be updated.
using_srg_associations 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**
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
zone_format cannot be updated.

---

**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
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”, “RESOURCE_RECORD” ) 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 have 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 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.
## Fields List

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_active_dir</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_gss_tsig_for_underscore_zone</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_gss_tsig_zone_updates</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_query</td>
<td>[struct]</td>
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<td>N</td>
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</tr>
<tr>
<td>allow_transfer</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>allow_update</td>
<td>[struct]</td>
<td>N</td>
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<tr>
<td>allow_update_forwarding</td>
<td>Bool</td>
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<td>N</td>
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<td>N/A</td>
</tr>
<tr>
<td>aws_rte53_zone_info</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>cloud_info</td>
<td>struct</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>comment</td>
<td>String</td>
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<td>: = ~</td>
</tr>
<tr>
<td>copy_xfer_to_notify</td>
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<td>N</td>
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</tr>
<tr>
<td>create_ptr_for_bulk_hosts</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>create_ptr_for_hosts</td>
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<td>create_underscore_zones</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_force_creation_timestamp_update</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ddns_principal_group</td>
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</tr>
<tr>
<td>ddns_principal_tracking</td>
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</tr>
<tr>
<td>ddns_restrict_patterns</td>
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</tr>
<tr>
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</tr>
<tr>
<td>ddns_restrict_protected</td>
<td>Bool</td>
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</tr>
<tr>
<td>ddns_restrict_secure</td>
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</tr>
<tr>
<td>ddns_restrict_static</td>
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<td>N</td>
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<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable_forwarding</td>
<td>Bool</td>
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<td>N/A</td>
</tr>
<tr>
<td>display_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_fqdn</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_integrity_enable</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_integrity_frequency</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_integrity_member</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_integrity_verbose_logging</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_soa_email</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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</tbody>
</table>

Continued on next page
3.238 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: zone_auth_discrepancy/ZG5zLmhvc3QkLl9kZWZhd3QuaDE:zone.com/default

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 the 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, zone`.

#### description

**description**

Information about the discrepancy.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

description is part of the base object.
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

severity is part of the base object.
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
timestamp is part of the base object.
timestamp cannot be updated.
timestamp 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
zone is part of the base object.
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

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

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
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<td>Y</td>
<td>=</td>
</tr>
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Search-only Fields List

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</tr>
<tr>
<td>view</td>
<td>String</td>
<td>=</td>
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</tbody>
</table>
### 3.239 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: zone_delegated/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

#### Restrictions

The object does not support the following operations:

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

The object cannot be managed on the 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, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>delegate_to</td>
<td></td>
</tr>
<tr>
<td>fqdn</td>
<td></td>
</tr>
</tbody>
</table>

#### address

**address**

The IP address of the server that is serving this zone.

**Type**

String.

**Search**
The field is not available for search.

Notes
address cannot be updated.
address cannot be written.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>delegate_to</th>
</tr>
</thead>
</table>

**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 field is required on creation.

**Search**
The field is not available for search.

**Notes**
delegate_to is part of the base object.

<table>
<thead>
<tr>
<th>delegated_ttl</th>
</tr>
</thead>
</table>

**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**
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**

dns_fqdn cannot be updated.
dns_fqdn cannot be written.

---

**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**

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**

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

- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**

fqdn is part of the base object.

fqdn cannot be updated.

**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**

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
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
mask_prefix cannot be updated.
mask_prefix 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
ms Managed cannot be updated.

ms Managed cannot be written.
**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**

`ms_read_only` cannot be updated.

`ms_read_only` cannot be written.

**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**

`ms_sync_master_name` cannot be updated.

`ms_sync_master_name` cannot be written.

**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.
**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**

parent cannot be updated.

parent cannot be written.

**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 flag for: delegated_ttl

**Type**

Bool.

**Create**

The default value is *False*.

**Search**
The field is not available for search.

**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**

using_srg_associations cannot be updated.

using_srg_associations cannot be written.

**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**

view is part of the base object.

**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

zone_format cannot be updated.

## Function Calls

<table>
<thead>
<tr>
<th>lock_unlock_zone</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>delegate_to</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
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<td>N/A</td>
</tr>
<tr>
<td>display_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_fqdn</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>enable_rfc2317_exclusion</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
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</tr>
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<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>fqdn</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>locked</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>locked_by</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mask_prefix</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_integrated</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ddns_mode</td>
<td>String</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_managed</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_read_only</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_sync_master_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
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<td>N/A</td>
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<td>ns_group</td>
<td>String</td>
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<td>N/A</td>
</tr>
<tr>
<td>parent</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>~</td>
</tr>
<tr>
<td>prefix</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>using_srg_associations</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>~</td>
</tr>
<tr>
<td>zone_format</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>~</td>
</tr>
</tbody>
</table>

### 3.240 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: zone_forward/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

### Restrictions

The object does not support the following operations:
• Global search (searches via the search object)
• CSV export

The object cannot be managed on the 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): forward_to, fqdn, view.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>forward_to</td>
<td></td>
</tr>
<tr>
<td>fqdn</td>
<td></td>
</tr>
</tbody>
</table>

### address

**address**
The IP address of the server that is serving this zone.

**Type**
String.

**Search**
The field is not available for search.

**Notes**
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

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

### disable

**disa**ble

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

**d**isplay **d**omain

The displayed name of the DNS zone.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

display_domain cannot be updated.
display_domain cannot be written.

### dns_fqdn

**d**ns **f**qdn

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**

dns_fqdn cannot be updated.
dns_fqdn cannot be written.
### 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

**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.

### 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 field is required on creation.

**Search**

The field is not available for search.

**Notes**

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

- `=` (exact equality)
- `~=` (regular expression)
Notes
fqdn is part of the base object.

fqdn cannot be updated.

<table>
<thead>
<tr>
<th>locked</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>locked_by</th>
</tr>
</thead>
</table>

**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**
locked_by cannot be updated.
locked_by cannot be written.

<table>
<thead>
<tr>
<th>mask_prefix</th>
</tr>
</thead>
</table>

**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**
mask_prefix cannot be updated.
mask_prefix cannot be written.

**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**

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**

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.
- “AUTHPRIMARY” if only the primary server of the zone is a Microsoft DNS server.
- “AUTHSECONDARY” if only the secondary server of the zone is a Microsoft DNS server.
- “AUTHBOTH” 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**

ms_managed cannot be updated.
ms_managed cannot be written.

---

**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**

ms_read_only cannot be updated.
ms_read_only cannot be written.
**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**

ms_sync_master_name cannot be updated.

ms_sync_master_name cannot be written.

**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**

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**

parent cannot be updated.

parent cannot be written.
**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**

This is true if the zone is associated with a shared record group.

**Type**

Bool.

**Search**

The field is not available for search.

**Notes**

using_srg_associations cannot be updated.

using_srg_associations cannot be written.

**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
view is part of the base object.

**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**
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>display_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_fqdn</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>ext</td>
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<td>N</td>
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</tr>
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<td>N/A</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>forwarding_servers</td>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>= ~</td>
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<tr>
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<td>N/A</td>
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<td>locked_by</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_integrated</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ddns_mode</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_managed</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_read_only</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_sync_master_name</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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</tr>
<tr>
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<td>N</td>
<td>=</td>
</tr>
<tr>
<td>prefix</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>

### 3.241 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: zone_rp/ZG5zLmJpbmRfY25h:some.name.com/myview
**Restrictions**

The object does not support the following operations:

- Global search (searches via the search object)

The object cannot be managed on the 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, view**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn</td>
<td></td>
</tr>
<tr>
<td>substitute_name</td>
<td>See the field description for more information</td>
</tr>
</tbody>
</table>

**address**

**address**

The IP address of the server that is serving this zone.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

address cannot be updated.

directory 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

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

### disable

disable
Determined 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**
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**
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

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

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

Notes
fqdn is part of the base object.
fqdn cannot be updated.

grid_primary

The grid primary servers for this zone.

Type
A/An Member Server struct array.

Create
The default value is:

empty
**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*

**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**

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

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**
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**
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**
- 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**
- parent cannot be updated.
- parent cannot be written.
**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**

The type of the primary server.

**Type**

String.

**Valid values are:**

- External
- Grid
- None

**Search**

The field is not available for search.

**Notes**

primary_type cannot be updated.

primary_type cannot be written.

**record_name_policy**

The hostname policy for records under this zone.

**Type**

String.

**Create**

The default value is empty.
**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`).

<table>
<thead>
<tr>
<th>rpz_last_updated_time</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpz_last_updated_time</td>
</tr>
<tr>
<td>The timestamp of the last update for zone data.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>rpz_last_updated_time cannot be updated.</td>
</tr>
<tr>
<td>rpz_last_updated_time cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>rpz_policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpz_policy</td>
</tr>
<tr>
<td>The response policy zone override policy.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• DISABLED</td>
</tr>
<tr>
<td>• GIVEN</td>
</tr>
<tr>
<td>• NODATA</td>
</tr>
<tr>
<td>• NXDOMAIN</td>
</tr>
<tr>
<td>• PASSTHRU</td>
</tr>
<tr>
<td>• SUBSTITUTE</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is GIVEN.</td>
</tr>
<tr>
<td>Search</td>
</tr>
<tr>
<td>The field is not available for search.</td>
</tr>
</tbody>
</table>
**rpz_priority**

**rpz_priority**
The priority of this response policy zone.

**Type**
Unsigned integer.

**Search**
The field is not available for search.

**Notes**
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**
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

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**

rpz_type cannot be updated.

---

### 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

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.
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

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

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

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 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_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 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 flag for: soa_email

Type

Bool.

Create

The default value is None.

Search

The field is not available for search.

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

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”,

©Infoblox Inc. All Rights Reserved 2265
“SubstituteCName”, “SubstituteMXRecord”, “SubstituteNAPTRRecord”, “SubstitutePTRRecord”, “SubstituteSRVRecord”, “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_lock_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

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>display_domain</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_soa_email</td>
<td>String</td>
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<td>Y</td>
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<tr>
<td>extattrs</td>
<td>Extattr</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>external_primaries</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>external_secondaries</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>fireeye_rule_mapping</td>
<td>struct</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>fqdn</td>
<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>grid_primary</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>grid_secondaries</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>locked</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>locked_by</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mask_prefix</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>member_soa_mnames</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>member_soa_serials</td>
<td>[struct]</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
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<td>network_view</td>
<td>String</td>
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<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ns_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>parent</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
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<td>N/A</td>
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<td>primary_type</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>record_name_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>rpz_drop_ip_rule_enabled</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_drop_ip_rule_min_prefix_length_ipv4</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_drop_ip_rule_min_prefix_length_ipv6</td>
<td>Unsigned int</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Continued on next page
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpz_last_updated_time</td>
<td>Timestamp</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_policy</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_priority</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_priority_end</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_severity</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>rpz_type</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>set_soa_serial_number</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>Unsigned int</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>N</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
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<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_grid_zone_timer</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
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<td>use_record_name_policy</td>
<td>Bool</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>use_rpz_drop_ip_rule</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
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</tr>
<tr>
<td>use_soa_email</td>
<td>Bool</td>
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</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
</tbody>
</table>

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

### 3.242 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: zone_stub/ZG5zLmhvc3QkLZhd3QuaDE:zone.com/default

**Restrictions**

The object does not support the following operations:

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

The object cannot be managed on the 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, view**.

The following fields are required to create this object:

<table>
<thead>
<tr>
<th>Field</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>fqdn</td>
<td></td>
</tr>
<tr>
<td>stub_from</td>
<td></td>
</tr>
</tbody>
</table>

**address**

**address**

The IP address of the server that is serving this zone.

**Type**

String.

**Search**

The field is not available for search.

**Notes**

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 \textit{empty}.

Search
The field is available for search via
- ‘:=’ (case insensitive search)
- ‘=’ (exact equality)
- ‘~=' (regular expression)

\textbf{disable}

\textbf{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 \textit{False}.

Search
The field is not available for search.

\textbf{disable_forwarding}

\textbf{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 \textit{False}.

Search
The field is not available for search.

\textbf{display_domain}

\textbf{display_domain}
The displayed name of the DNS zone.

Type
String.

Search
The field is not available for search.
Notes
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
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.

<table>
<thead>
<tr>
<th><strong>fqdn</strong></th>
</tr>
</thead>
</table>

**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
- ‘=’ (exact equality)
- ‘~’ (regular expression)

**Notes**
fqdn is part of the base object.
fqdn cannot be updated.

<table>
<thead>
<tr>
<th><strong>locked</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>locked_by</strong></th>
</tr>
</thead>
</table>

**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**
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**
mask_prefix cannot be updated.
mask_prefix 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**

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**

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
### 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**

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**

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**

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 alphanumerical 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

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**

soa_email cannot be updated.

soa_email cannot be written.

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**

soa_expire cannot be updated.

soa_expire cannot be written.

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.
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**
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**
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**
soa_retry cannot be updated.
soa_retry cannot be written.

<table>
<thead>
<tr>
<th><strong>soa_serial_number</strong></th>
</tr>
</thead>
</table>

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**

soa_serial_number cannot be updated.
soa_serial_number cannot be written.

<table>
<thead>
<tr>
<th><strong>stub_from</strong></th>
</tr>
</thead>
</table>

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**

stub_from is part of the base object.

<table>
<thead>
<tr>
<th><strong>stub_members</strong></th>
</tr>
</thead>
</table>

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:
**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 `Mserver Server` struct array.

**Create**

The default value is:

`empty`

**Search**

The field is not available for search.

**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**

`using_srg_associations` cannot be updated.

`using_srg_associations` cannot be written.

**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
view is part of the base object.

<table>
<thead>
<tr>
<th>zone_format</th>
</tr>
</thead>
</table>

**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**
zone_format cannot be updated.

**Function Calls**

<table>
<thead>
<tr>
<th>lock_unlock_zone</th>
</tr>
</thead>
</table>

**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**
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Req</th>
<th>R/O</th>
<th>Base</th>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>comment</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>: = ~</td>
</tr>
<tr>
<td>disable</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>disable_forwarding</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>display_domain</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>dns_fqdn</td>
<td>String</td>
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<td>N/A</td>
</tr>
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<td>N</td>
<td>N</td>
<td>ext</td>
</tr>
<tr>
<td>external_ns_group</td>
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<td>N</td>
<td>N/A</td>
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<td>String</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>= ~</td>
</tr>
<tr>
<td>locked</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>locked_by</td>
<td>String</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>mask_prefix</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ad_integrated</td>
<td>Bool</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_ddns_mode</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_managed</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_read_only</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ms_sync_master_name</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>ns_group</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>parent</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>=</td>
</tr>
<tr>
<td>prefix</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_email</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_expire</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_mname</td>
<td>String</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_negative_ttl</td>
<td>Unsigned int</td>
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<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_refresh</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_retry</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>soa_serial_number</td>
<td>Unsigned int</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>stub_from</td>
<td>[struct]</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>stub_members</td>
<td>[struct]</td>
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<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>stub_msservers</td>
<td>[struct]</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>using_srg_associations</td>
<td>Bool</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>view</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>=</td>
</tr>
<tr>
<td>zone_format</td>
<td>String</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>=</td>
</tr>
</tbody>
</table>
4.1 ad_auth_server : Active Directory Authentication Server.

Represents an AD authentication server (i.e., domain controller) that is used to authenticate administrators.

**auth_port**

The authentication port.

**Type**

Unsigned integer.

**Create**

The default value is *undefined*.

**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**

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 *NONE*.

---

### 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 flag for: mgmt_port

**Type**

Bool.

**Create**

The default value is *False*.

### 4.2 addressac : Address ac.

This struct represents an access control rule for an 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**

The permission to use for this address.

**Type**

String.

**Valid values are:**

- ALLOW
- DENY

**Create**

The default value is *ALLOW*.

### 4.3 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**
- 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**
- 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**
- 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
failover cannot be updated.
failover cannot be written.

**geolocation_continent_code**

Continent code for Amazon Route 53 geolocation routing.

Type
String.

Notes
geolocation_continent_code cannot be updated.
geolocation_continent_code cannot be written.

**geolocation_country_code**

Country code for Amazon Route 53 geolocation routing.

Type
String.

Notes
geolocation_country_code cannot be updated.
geolocation_country_code cannot be written.

**geolocation_subdivision_code**

Subdivision code for Amazon Route 53 geolocation routing.

Type
String.

Notes
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**
health_check_id cannot be updated.
health_check_id cannot be written.

<table>
<thead>
<tr>
<th>region</th>
</tr>
</thead>
</table>

**region**
Amazon EC2 region where this resource record resides for latency routing.

**Type**
String.

**Notes**
region cannot be updated.
region cannot be written.

<table>
<thead>
<tr>
<th>set_identifier</th>
</tr>
</thead>
</table>

**set_identifier**
An identifier that differentiates records with the same DNS name and type for weighted, latency, geolocation, and failover routing.

**Type**
String.

**Notes**
set_identifier cannot be updated.
set_identifier cannot be written.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
</table>

**type**
Type of Amazon Route 53 resource record.

**Type**
String.

**Valid values are:**
- A
- AAAA
- CNAME
- MX
Notes
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**

weight cannot be updated.
weight cannot be written.

### 4.4 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 used for connecting to the cloud management platform.

**Type**
String.

**Valid values are:**
- DIRECT
- INDIRECT

**Create**
The default value is DIRECT.

**disabled**

Indicates if the task is enabled or disabled.

**Type**
Bool.

**Create**
The default value is False.

**filter**

Filter for this task.

**Type**
String.

**Create**
The field is required on creation.

**last_run**

The timestamp when the task was started last.

**Type**
Timestamp.

**Notes**
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
state cannot be updated.
state cannot be written.

**state_msg**

**state_msg**
State message for the task.

**Type**
String.

**Notes**
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**
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**
zone_count cannot be updated.
zone_count cannot be written.

4.5 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**
associated_vpcs cannot be updated.
associated_vpcs cannot be written.
### caller_reference

**User specified caller reference when zone was created.**

**Type**

String.

**Notes**

caller_reference cannot be updated.
caller_reference cannot be written.

### delegation_set_id

**ID of delegation set associated with this zone.**

**Type**

String.

**Notes**

delegation_set_id cannot be updated.
delegation_set_id cannot be written.

### hosted_zone_id

**AWS route 53 assigned ID for this zone.**

**Type**

String.

**Notes**

hosted_zone_id cannot be updated.
hosted_zone_id cannot be written.

### name_servers

**List of AWS name servers that are authoritative for this domain name.**

**Type**

String array.

**Notes**

name_servers cannot be updated.
name_servers cannot be written.
**record_set_count**

Number of resource record sets in the hosted zone.

**Type**

Unsigned integer.

**Notes**

record_set_count cannot be updated.

record_set_count cannot be written.

**type**

Indicates whether private or public zone.

**Type**

String.

**Valid values are:**

- PRIVATE
- PUBLIC

**Notes**

type cannot be updated.

type cannot be written.

**4.6 bgpas : BGP (Border Gateway Protocol) Autonomous System (AS)**

Represents a BGP Autonomous System configured at the grid member level.

**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 \textit{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 \textit{4}.

**link_detect**

**link_detect**
Determines if link detection on the interface is enabled or not.

**Type**
Bool.

**Create**
The default value is \textit{False}.

**neighbors**

**neighbors**
The BGP neighbors for this AS.

**Type**
A/An \textit{BGP (Border Gateway Protocol) Neighbor} struct array.

**Create**
The default value is:

\texttt{empty}
4.7 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.

<table>
<thead>
<tr>
<th>authentication_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_mode</td>
</tr>
<tr>
<td>The BGP authentication mode.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• MD5</td>
</tr>
<tr>
<td>• NONE</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>bfd_template</th>
</tr>
</thead>
<tbody>
<tr>
<td>bfd_template</td>
</tr>
<tr>
<td>The BFD template name.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>bgp_neighbor_pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>bgp_neighbor_pass</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>A password is required when BGP authentication is enabled</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>bgp_neighbor_pass is not readable.</td>
</tr>
</tbody>
</table>

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**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*.

**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**

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**

The IP address of the BGP neighbor.

**Type**
String.

**Create**
The field is required on creation.

**remote_as**

The remote AS number of the BGP neighbor.

**Type**
Unsigned integer.

**Create**
The field is required on creation.

### 4.8 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**

Number of object type instances created.

**Type**
Unsigned integer.

**Notes**
count cannot be updated.
count cannot be written.

<table>
<thead>
<tr>
<th>type_name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object type name.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>type_name cannot be updated.</td>
</tr>
<tr>
<td>type_name cannot be written.</td>
</tr>
</tbody>
</table>

### 4.9 captiveportal:file : Captive portal file.

This structure is used to represent files uploaded to the captive portal.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>The name of the uploaded file.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <code>undefined</code>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>The type of the uploaded file.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• AUP</td>
</tr>
<tr>
<td>• IMG FOOTER</td>
</tr>
<tr>
<td>• IMG HEADER</td>
</tr>
<tr>
<td>• IMG LOGO</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <code>undefined</code>.</td>
</tr>
</tbody>
</table>
4.10 changedobject : Changed object information.

This struct contains information about changes to be made to the specified object.

**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
- Upgrade Grid

**Notes**

action cannot be updated.

action cannot be written.

**name**

The object name.

**Type**

String.

**Notes**

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**
object_type cannot be updated.
object_type cannot be written.

**properties**

**properties**
A list of properties that are being changed.

**Type**
String array.

**Notes**
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**
type cannot be updated.
type cannot be written.

**4.11 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**

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**

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.

### 4.12 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**

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.

4.13 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

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

4.14 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

The ECS domain name permission.

Valid values are:
- ALLOW
- DENY

Create
The default value is ALLOW.

4.15 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.

### 4.16 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*.
4.17 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 of the DHCP option.

**Type**

String.

**Create**

The default value is undefined.

**num**

The code of the DHCP option.

**Type**

Unsigned integer.

**Create**

The default value is undefined.

**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*.

---

**4.18 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*. 
**pollingAuthenticateSnmpv2cOrLaterOnly**

Determines if polling and authenticating using SNMPv2c or later is enabled.

**Type**
Bool.

**Create**
The default value is `undefined`.

**purgeExpiredDeviceData**

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`.

**purgeExpiredEndhostData**

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`.

**routeLimit**

Route limit.

**Type**
Unsigned integer.

**Create**
The default value is `undefined`.
**syslog_ipam_events**

Determines if syslogging of IPAM sync events is enabled.

**Type**

Bool.

**Create**

The default value is *undefined*.

**syslog_network_events**

Determines if syslogging of Network sync events is enabled.

**Type**

Bool.

**Create**

The default value is *undefined*.

**tcp_scan_technique**

The TCP scan method.

**Type**

String.

**Valid values are:**

- CONNECT
- SYN

**Create**

The default value is *undefined*.

### 4.19 discovery:autoconversionsetting: This struct contains settings for automatic conversion

of discovered data to managed objects.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>The comment. Type: String. The default value is <code>undefined</code>.</td>
</tr>
<tr>
<td>condition</td>
<td>The string that contains condition of use the auto conversion settings. Type: String. The default value is <code>undefined</code>.</td>
</tr>
<tr>
<td>format</td>
<td>Template string used to generate host names. Type: String. Create: The field is required on creation.</td>
</tr>
<tr>
<td>network_view</td>
<td>The network view name which contains discovered data for convert. Type: String. Create: The field is required on creation.</td>
</tr>
</tbody>
</table>
**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.

---

### 4.20 discovery:basicpollsettings : Basic Poll Settings.

This struct contains information about the discovery basic poll settings.

**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.

**complete_ping_sweep**

Determines whether complete ping sweep is enabled or not.

**Type**

Bool.

**Create**

The field is required on creation.
**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.

**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**

Determines whether SNMP collection is enabled or not.

**Type**

Bool.

**Create**

The field is required on creation.

**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**

Indicates the interval for switch port data collection polling.

**Type**

Unsigned integer.

**Create**

The default value is empty.

**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.
4.21 discovery:ciscoapicconfiguration : The cisco apic configuration structure.

The structure provides information about Cisco APIC configuration.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
</tr>
</tbody>
</table>
Cisco APIC IP address or FQDN.
**Type**
String.
Values with leading or trailing white space are not valid for this field.
**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>ca_certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ca_certificate</td>
</tr>
</tbody>
</table>
The CA certificate.
**Type**
String.
This field supports nested return fields as described [here](#).
**Create**
You must specify the ca_certificate when the protocol is set to ‘HTTPS’.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
</tbody>
</table>
The descriptive comment for the Cisco APIC configuration.
**Type**
String.
Values with leading or trailing white space are not valid for this field.
**Create**
The default value is *undefined*.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_view</td>
</tr>
</tbody>
</table>
The network view associated with Cisco APIC.

**Type**
String.

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>password</th>
</tr>
</thead>
</table>
password  
Cisco APIC login password.
**Type**
String.
Values with leading or trailing white space are not valid for this field.

**Create**
The field is required on creation.

**Notes**
password is not readable.

<table>
<thead>
<tr>
<th>protocol</th>
</tr>
</thead>
</table>
protocol  
The connection protocol. Valid values are ‘HTTP’ and ‘HTTPS’.
**Type**
String.
**Valid values are:**
- HTTP
- HTTPS

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>username</th>
</tr>
</thead>
</table>
username  
Cisco APIC login name.
**Type**
String.

**Create**
The field is required on creation.
4.22 discovery:clicredential : CLI credential.

CLI credentials for devices discovered by Network Automation.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
<td>The comment for the credential.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
<td></td>
</tr>
<tr>
<td>Create</td>
<td>The default value is empty.</td>
</tr>
<tr>
<td>credential_type</td>
<td>The type of the credential.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
<td></td>
</tr>
<tr>
<td>• ENABLE_SSH</td>
<td></td>
</tr>
<tr>
<td>• ENABLE_TELNET</td>
<td></td>
</tr>
<tr>
<td>• SSH</td>
<td></td>
</tr>
<tr>
<td>• TELNET</td>
<td></td>
</tr>
<tr>
<td>Create</td>
<td>The field is required on creation.</td>
</tr>
<tr>
<td>id</td>
<td>The Credentials ID.</td>
</tr>
<tr>
<td>Type</td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Notes</td>
<td>id cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>id cannot be written.</td>
</tr>
</tbody>
</table>

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**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.

**4.23 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**
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**
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**
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**
disable cannot be updated.
disable is not readable.
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
zone cannot be updated.
zone is not readable.


This struct contains information about port statistics.

admin_down_oper_down_count

The total number of interfaces which have administrative state ‘DOWN’ and operating state ‘DOWN’.
Type
Unsigned integer.
Notes
admin_down_oper_down_count cannot be updated.
admin_down_oper_down_count cannot be written.

admin_up_oper_down_count

The total number of interfaces which have administrative state ‘UP’ and oper state ‘DOWN’.
Type
Unsigned integer.
Notes
admin_up_oper_down_count cannot be updated.
admin_up_oper_down_count cannot be written.

**admin_up_oper_up_count**

The total number of interfaces which have both administrative and operating states as ‘UP’.

**Type**
Unsigned integer.

**Notes**
admin_up_oper_up_count cannot be updated.
admin_up_oper_up_count cannot be written.

**interfaces_count**

The total number of available interfaces on this device.

**Type**
Unsigned integer.

**Notes**
interfaces_count cannot be updated.
interfaces_count cannot be written.

4.25 discovery:devicedatacollectionstatus : Device Data Collection Status struct.

These parameters are related to the result of the Get Device Support Info call.

**data_source**

The source from which device support information is collected.

**Type**
String.

**Notes**
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**

*end_time* cannot be updated.

*end_time* cannot be written.

---

### 4.26 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**

available cannot be updated.

available cannot be written.

**function**

**function**
The function of the device.

**Type**
String.

**Notes**

function cannot be updated.

function cannot be written.

**supported**

**supported**
Shows whether the function is supported by the device or not.

**Type**
String.

**Notes**
supported cannot be updated.
supported cannot be written.

---

**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**
value cannot be updated.
value cannot be written.

---

**4.27 discovery:discoverydataconversionresult : Discovery Data Conversion result.**

These parameters are related to the result of the Discovery Data Conversion call.

---

**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**
address cannot be updated.
address cannot be written.

---

**message**

—
The status message. This can contain either the reason for the object conversion failure or a success string.

**Type**
String.

**Notes**
message cannot be updated.
message cannot be written.

**object**

The converted object. This field is empty if the conversion fails.

**Type**
String.

This field supports nested return fields as described here.

**Notes**
object cannot be updated.
object cannot be written.

**status**

The status of the unmanaged Discovery Data conversion.

**Type**
String.

**Valid values are:**
- FAILURE
- SUCCESS

**Notes**
status cannot be updated.
status cannot be written.

### 4.28 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**
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**
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**
network cannot be updated.
network cannot be written.

### 4.29 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**
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**
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**
stream cannot be updated.
stream cannot be written.

**4.30 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**
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.

**NOTE:** Automatic selection is supported only for JSON and XML requests.

**Examples:**
- func:nextavailablenetwork:network/ZG54dfgsrDFEFSfLzA: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**
network cannot be updated.
network is not readable.

<table>
<thead>
<tr>
<th>network_view</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>network_view</strong></td>
</tr>
<tr>
<td>The name of the network view in which this network resides.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_view cannot be updated.</td>
</tr>
<tr>
<td>network_view is not readable.</td>
</tr>
</tbody>
</table>

4.31 discovery:networkinfo : Network info.

This struct contains information about network.

<table>
<thead>
<tr>
<th>network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>network</strong></td>
</tr>
<tr>
<td>The ref to the network to which the management IP address belongs.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>This field supports nested return fields as described here.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network cannot be updated.</td>
</tr>
<tr>
<td>network cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>network_str</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>network_str</strong></td>
</tr>
<tr>
<td>The Network address in format address/cidr.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_str cannot be updated.</td>
</tr>
<tr>
<td>network_str cannot be written.</td>
</tr>
</tbody>
</table>
4.32 discovery:port : The discovery port structure.

The structure provides information about discovery port.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
<tr>
<td>The comment for this discovery port.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
<tbody>
<tr>
<td>port</td>
</tr>
<tr>
<td>The discovery port number.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>The discovery port type.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• TCP</td>
</tr>
<tr>
<td>• UDP</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>


This struct contains information about admin status.
**details**

The associated port control task details.

**Type**

A/An *Port Control Task Details* struct.

**Notes**

details cannot be updated.
details cannot be written.

---

**status**

The configured admin status value.

**Type**

String.

**Valid values are:**

- DOWN
- UP

**Notes**

status cannot be updated.
status cannot be written.

---

**4.34 discovery:port:config:description : Port Config Description.**

This struct contains information about config description.

---

**description**

The configured description value.

**Type**

String.

**Notes**

description cannot be updated.
description cannot be written.
details

The associated port control task details.

Type
A/An *Port Control Task Details* struct.

Notes
details cannot be updated.
details cannot be written.

4.35 discovery:port:config:vlaninfo : Port Config VLAN info.

This struct contains information about VLAN info.

data_vlan_info

The configured data VLAN ID and the name of the interface.

Type
A/An *VLAN information* struct.

Notes
data_vlan_info cannot be updated.
data_vlan_info cannot be written.

details

The associated port control task details.

Type
A/An *Port Control Task Details* struct.

Notes
details cannot be updated.
details cannot be written.

voice_vlan_info


The configured voice VLAN id and name of interface.

**Type**
A/An VLAN information struct.

**Notes**
voice_vlan_info cannot be updated.
voice_vlan_info cannot be written.

### 4.36 discovery:port:control:info : Port Control info.

This struct contains information about Port Control.

<table>
<thead>
<tr>
<th>admin_status</th>
</tr>
</thead>
</table>

**admin_status**
The administrative state of the interface.

**Type**
String.

**Valid values are:**
- DOWN
- UP

**Create**
The default value is undefined.

**Notes**
admin_status cannot be updated.
admin_status is not readable.

<table>
<thead>
<tr>
<th>data_vlan_info</th>
</tr>
</thead>
</table>

**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**
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**
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**
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**
interface cannot be updated.
interface is not readable.
**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**
parent cannot be updated.

parent is not readable.

**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**
voice_vlan_info cannot be updated.

voice_vlan_info is not readable.

---

### 4.37 discovery:port:control:taskdetails : Port Control Task Details.

This struct contains information about task details.

**id**

The ID of the associated port control task.

**Type**
Unsigned integer.

**Notes**
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**
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**
status cannot be updated.
status cannot be written.

### 4.38 discovery:scaninterface : The discovery scan interface structure.

The discovery scan interface 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.

### 4.39 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*.

### 4.40 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

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
</table>

**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*.

<table>
<thead>
<tr>
<th>privacy_password</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>privacy_protocol</th>
</tr>
</thead>
</table>

**privacy_protocol**
Privacy protocol for the SNMPv3 user.

**Type**
String.
Valid values are:

- 3DES
- AES
- 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.

4.41 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.


Status information on devices discovered by Network Automation.

<table>
<thead>
<tr>
<th>message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>message</strong></td>
</tr>
<tr>
<td>The detailed message.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>message cannot be updated.</td>
</tr>
<tr>
<td>message cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>status</strong></td>
</tr>
<tr>
<td>The overall status of the device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• ERROR</td>
</tr>
<tr>
<td>• OK</td>
</tr>
<tr>
<td>• RUNNING</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>status cannot be updated.</td>
</tr>
<tr>
<td>status cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>timestamp</strong></td>
</tr>
<tr>
<td>The timestamp when the status was generated.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>timestamp cannot be updated.</td>
</tr>
</tbody>
</table>
timestamp cannot be written.

**4.43 discovery:vlaninfo : VLAN information.**

VLAN information on devices discovered by Network Automation.

<table>
<thead>
<tr>
<th>id</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
</tr>
<tr>
<td>The Vlan ID.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is <em>undefined</em>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
<tr>
<td>The Vlan name.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is <em>undefined</em>.</td>
</tr>
</tbody>
</table>

**4.44 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.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
<tr>
<td>The comment.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is <em>undefined</em>.</td>
</tr>
</tbody>
</table>
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

The name of the network view associated with the VRF mapping rule.

Type
String.
Create
The field is required on creation.

4.45 discoverydata : Discovered data.

This struct contains data gathered during a network discovery.

ap_ip_address

Discovered IP address of Wireless Access Point.

Type
String.
Notes
ap_ip_address cannot be updated.
ap_ip_address cannot be written.

ap_name

Discovered name of Wireless Access Point.

Type
String.
Notes
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**
ap_ssid cannot be updated.
ap_ssid cannot be written.

**bridge_domain**

*bridge_domain*
Discovered bridge domain.

**Type**
String.

**Notes**
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**
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**
cisco_ise_security_group cannot be updated.
cisco_ise_security_group cannot be written.

**cisco_ise_session_state**

The Cisco ISE connection session state.

**Type**
String.

**Valid values are:**
- AUTHENTICATED
- AUTHENTICATING
- DISCONNECTED
- POSTURED
- STARTED

**Notes**
cisco_ise_session_state cannot be updated.
cisco_ise_session_state cannot be written.

**cisco_ise_ssid**

The Cisco ISE SSID.

**Type**
String.

**Notes**
cisco_ise_ssid cannot be updated.
cisco_ise_ssid cannot be written.

**cmp_type**

If the IP is coming from a Cloud environment, the Cloud Management Platform type.
** CMP Type **

String.

** Notes **

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 **

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 **

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 **

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**
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**
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**
device_type cannot be updated.
device_type cannot be written.

### device_vendor

**device_vendor**
The vendor name of the end host.

**Type**
String.

**Notes**
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**

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**

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**

duid cannot be updated.
duid cannot be written.

**endpoint_groups**

*endpoint_groups*

A comma-separated list of discovered endpoint groups.

**Type**

String.

**Notes**

endpoint_groups cannot be updated.
endpoint_groups cannot be written.

<table>
<thead>
<tr>
<th>first_discovered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>first_discovered</strong></td>
</tr>
<tr>
<td>The date and time the IP address was first discovered in <em>Epoch seconds</em> format.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>first_discovered cannot be updated.</td>
</tr>
<tr>
<td>first_discovered cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>iprg_no</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>iprg_no</strong></td>
</tr>
<tr>
<td>The port redundant group number.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>iprg_no cannot be updated.</td>
</tr>
<tr>
<td>iprg_no cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>iprg_state</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>iprg_state</strong></td>
</tr>
<tr>
<td>The status for the IP address within port redundant group.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• ACTIVE</td>
</tr>
<tr>
<td>• NEGOTIATION</td>
</tr>
<tr>
<td>• STANDBY</td>
</tr>
<tr>
<td>• VIP</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>iprg_state cannot be updated.</td>
</tr>
<tr>
<td>iprg_state cannot be written.</td>
</tr>
</tbody>
</table>
### iprg_type

**Type**
String.

**Valid values are:**
- HSRP
- VRRP

**Notes**
- iprg_type cannot be updated.
- iprg_type cannot be written.

### last_discovered

**The date and time the IP address was last discovered in *Epoch seconds* format.**

**Type**
Timestamp.

**Notes**
- last_discovered cannot be updated.
- last_discovered cannot be written.

### 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**
- mac_address cannot be updated.
- mac_address cannot be written.

### mgmt_ip_address
The management IP address of the end host that has more than one IP.

**Type**
String.

**Notes**
gmt_ip_address cannot be updated.
gmt_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**
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**
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**
network_component_description cannot be updated.
network_component_description cannot be written.
### network_component_ip

**Description**
The IPv4 Address or IPv6 Address of the switch that is connected to the end device.

**Type**
String.

**Notes**
- network_component_ip cannot be updated.
- network_component_ip cannot be written.

### network_component_location

**Description**
Location of the network component on which the IP address was discovered.

**Type**
String.

**Notes**
- network_component_location cannot be updated.
- network_component_location cannot be written.

### network_component_model

**Description**
Model name of the switch port connected to the end host in vendor terminology.

**Type**
String.

**Notes**
- network_component_model cannot be updated.
- network_component_model cannot be written.

### network_component_name

**Description**
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**
- network_component_name cannot be updated.
network_component_name cannot be written.

<table>
<thead>
<tr>
<th><strong>network_component_port_description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>network_component_port_description</td>
</tr>
<tr>
<td>A textual description of the switch port that is connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_component_port_description cannot be updated.</td>
</tr>
<tr>
<td>network_component_port_description cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>network_component_port_name</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>network_component_port_name</td>
</tr>
<tr>
<td>The name of the switch port connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_component_port_name cannot be updated.</td>
</tr>
<tr>
<td>network_component_port_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>network_component_port_number</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>network_component_port_number</td>
</tr>
<tr>
<td>The number of the switch port connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_component_port_number cannot be updated.</td>
</tr>
<tr>
<td>network_component_port_number cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>network_component_type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>network_component_type</td>
</tr>
<tr>
<td>Identifies the switch that is connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>network_component_type cannot be updated.</td>
</tr>
<tr>
<td>network_component_type cannot be written.</td>
</tr>
</tbody>
</table>
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**
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**
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**
os cannot be updated.
os cannot be written.
<table>
<thead>
<tr>
<th><strong>port_duplex</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port_duplex</strong></td>
<td>The negotiated or operational duplex setting of the switch port connected to the end device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Notes**       | port_duplex cannot be updated.  
port_duplex cannot be written. |

<table>
<thead>
<tr>
<th><strong>port_link_status</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port_link_status</strong></td>
<td>The link status of the switch port connected to the end device. Indicates whether it is connected.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Notes**            | port_link_status cannot be updated.  
port_link_status cannot be written. |

<table>
<thead>
<tr>
<th><strong>port_speed</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port_speed</strong></td>
<td>The interface speed, in Mbps, of the switch port.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Notes**       | port_speed cannot be updated.  
port_speed cannot be written. |

<table>
<thead>
<tr>
<th><strong>port_status</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port_status</strong></td>
<td>The operational status of the switch port. Indicates whether the port is up or down.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Notes**       | port_status cannot be updated.  
port_status cannot be written. |
**port_type**

The type of switch port.

**Type**
String.

**Notes**
port_type cannot be updated.
port_type cannot be written.

**port_vlan_description**

The description of the VLAN of the switch port that is connected to the end device.

**Type**
String.

**Notes**
port_vlan_description cannot be updated.
port_vlan_description cannot be written.

**port_vlan_name**

The name of the VLAN of the switch port.

**Type**
String.

**Notes**
port_vlan_name cannot be updated.
port_vlan_name cannot be written.

**port_vlan_number**

The ID of the VLAN of the switch port.

**Type**
String.

**Notes**
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**
task_name cannot be updated.
task_name cannot be written.

**tenant**

*tenant*
Discovered tenant.

**Type**
String.

**Notes**
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**
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**
v_cluster cannot be updated.
v_cluster cannot be written.
<table>
<thead>
<tr>
<th><strong>v_datacenter</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>v_datacenter</strong></td>
<td>The name of the vSphere datacenter or container to which the virtual entity belongs.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>v_datacenter cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>v_datacenter cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>v_entity_name</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>v_entity_name</strong></td>
<td>The name of the virtual entity.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>v_entity_name cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>v_entity_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>v_entity_type</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>v_entity_type</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>v_entity_type cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>v_entity_type cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>v_host</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>v_host</strong></td>
<td>The name of the VMware server on which the virtual entity was discovered.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>v_host cannot be updated.</td>
</tr>
</tbody>
</table>
v_host cannot be written.

**v_switch**

**v_switch**
The name of the switch to which the virtual entity is connected.

**Type**
String.

**Notes**
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**
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**
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**
vmhost_mac_address cannot be updated.
vmhost_mac_address cannot be written.

<table>
<thead>
<tr>
<th><strong>vmhost_name</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>vmhost_name</strong></td>
</tr>
<tr>
<td>Name of the physical node on which the virtual machine is hosted.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>vmhost_name cannot be updated.</td>
</tr>
<tr>
<td>vmhost_name cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>vmhost_nic_names</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>vmhost_nic_names</strong></td>
</tr>
<tr>
<td>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”.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>vmhost_nic_names cannot be updated.</td>
</tr>
<tr>
<td>vmhost_nic_names cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>vmhost_subnet_cidr</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>vmhost_subnet_cidr</strong></td>
</tr>
<tr>
<td>CIDR subnet of the physical node on which the virtual machine is hosted.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>vmhost_subnet_cidr cannot be updated.</td>
</tr>
<tr>
<td>vmhost_subnet_cidr cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>vmi_id</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>vmi_id</strong></td>
</tr>
</tbody>
</table>
ID of the virtual machine.

**Type**
String.

**Notes**
vmi_id cannot be updated.
vmi_id cannot be written.

---

### vmi_ip_type

**vmi_ip_type**
Discovered IP address type.

**Type**
String.

**Notes**
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**
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**
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**

`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**

`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**

`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.
**vport_con_speed**

vport_con_speed cannot be updated.
vport_con_speed cannot be written.

**vport_link_status**

Link status of the network adapter on the virtual switch where the virtual machine connected to.

**Type**

String.

**Notes**

vport_link_status cannot be updated.
vport_link_status cannot be written.

**vport_mac_address**

MAC address of the network adapter on the virtual switch where the virtual machine connected to.

**Type**

String.

**Notes**

vport_mac_address cannot be updated.
vport_mac_address cannot be written.

**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
vport_mode cannot be updated.
vport_mode cannot be written.

vport_name

Name of the network adapter on the virtual switch connected with the virtual machine.
Type
String.
Notes
vport_name cannot be updated.
vport_name cannot be written.

vport_speed

Actual speed of the network adapter on the virtual switch where the virtual machine connected to. Unit is kb.
Type
String.
Notes
vport_speed cannot be updated.
vport_speed cannot be written.

vswitch_available_ports_count

Number of available ports reported by the virtual switch on which the virtual machine/vport connected to.
Type
Unsigned integer.
Notes
vswitch_available_ports_count cannot be updated.
vswitch_available_ports_count cannot be written.

vswitch_id
ID of the virtual switch.

**Type**
String.

**Notes**
vswitch_id cannot be updated.
vswitch_id cannot be written.

### vswitch_ipv6_enabled

Indicates the virtual switch has IPV6 enabled.

**Type**
Bool.

**Notes**
vswitch_ipv6_enabled cannot be updated.
vswitch_ipv6_enabled cannot be written.

### vswitch_name

Name of the virtual switch.

**Type**
String.

**Notes**
vswitch_name cannot be updated.
vswitch_name cannot be written.

### vswitch_segment_id

**Type**
String.

**Notes**
vswitch_segment_id cannot be updated.
vswitch_segment_id cannot be written.
vswitch_segment_name

Name of the network segment on which the current virtual machine/vport connected to.

Type
String.

Notes
vswitch_segment_name cannot be updated.
vswitch_segment_name cannot be written.

vswitch_segment_port_group

Port group of the network segment on which the current virtual machine/vport connected to.

Type
String.

Notes
vswitch_segment_port_group cannot be updated.
vswitch_segment_port_group cannot be written.

vswitch_segment_type

Type of the network segment on which the current virtual machine/vport connected to.

Type
String.

Notes
vswitch_segment_type cannot be updated.
vswitch_segment_type cannot be written.

vswitch_tep_dhcp_server

DHCP server of the virtual tunnel endpoint (VTEP) in the virtual switch.

Type
String.

Notes
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**

vswitch_tep_ip cannot be updated.
vswitch_tep_ip cannot be written.

### vswitch_tep_multicast

**vswitch_tep_multicast**

Multicast address of the virtual tunnel endpoint (VTEP) in the virtual switch.

**Type**

String.

**Notes**

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**

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**

vswitch_tep_type cannot be updated.
vswitch_tep_type cannot be written.
### vswitch_tep_vlan

**VLAN of the virtual tunnel endpoint (VTEP) in the virtual switch.**

**Type**
String.

**Notes**
vswitch_tep_vlan cannot be updated.
vswitch_tep_vlan cannot be written.

### vswitch_type

**Type of the virtual switch: standard or distributed.**

**Type**
String.

**Valid values are:**
- Distributed
- Standard
- Unknown

**Notes**
vswitch_type cannot be updated.
vswitch_type cannot be written.

### 4.46 discoverytaskport : The network discovery TCP port.

This structure represents the TCP port that network discovery jobs use to find IP addresses.

### 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.

4.47 discoverytaskvserver: VMWare discovery server.

Contains information about the vSphere servers on which the VM discovery is performed.

creation_protocol

creation_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 vSphere server.

**Type**

String.

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

**Create**

The field is required on creation.

**password**

The user password on the vSphere server.

**Type**

String.

**Create**

The field is required on creation.

**Notes**

password is not readable.

**port**

The connection port that the vSphere server uses.

**Type**

Unsigned integer.

**Create**

The default value is 443.

**username**

The user name on the vSphere server.

**Type**

String.

**Create**

The field is required on creation.

**4.48  dnsseckey : DNSSEC Key.**

The DNSSEC key object.
**algorithm**

**algorithm**
The public-key encryption algorithm.

**Type**
String.

**Valid values are:**
- 1
- 10
- 3
- 5
- 6
- 7
- 8

**Notes**
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**
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**
public_key cannot be updated.
public_key cannot be written.
**status**

The status of the key for the zone.

**Type**

String.

**Valid values are:**

- ACTIVE
- IMPORTED
- PUBLISHED
- ROLLED

**Notes**

status cannot be updated.

status cannot be written.

---

**tag**

The tag of the key for the zone.

**Type**

Unsigned integer.

**Create**

The field is required on creation.

---

**type**

The key type.

**Type**

String.

**Valid values are:**

- KSK
- ZSK

**Notes**

type cannot be updated.

type cannot be written.
4.49 DNSSEC Key Algorithm

The DNSSEC key algorithm structure is used for configuring algorithms for Key-signing and Zone-signing keys.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>algorithm</strong></td>
<td>The signing key algorithm.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
</tbody>
</table>
| **Valid values are** | - DSA  
- RSAMD5  
- RSASHA1  
- RSASHA256  
- RSASHA512 |

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>size</strong></td>
<td>The signing key size, in bits.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
</tbody>
</table>

**Create**
The field is required on creation.

4.50 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**

If set to True, automatic rollovers for the signing key is enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**ksk_algorithm**

Key Signing Key algorithm. Deprecated.

**Type**

String.

**Valid values are:**

- 1
- 10
- 3
- 5
- 6
- 7
- 8

**Create**

The default value is 8.

**ksk_algorithms**

A list of Key Signing Key Algorithms.

**Type**

A/An *DNSSEC Key Algorithm* struct array.

**Create**

The default value is:

```json
[{
  'algorithm': 'RSASHA256',
  'size': 2048
}]```
ksk_email_notification_enabled

Enable email notifications for KSK related events.

Type

Bool.

Create

The default value is False.

ksk_rollover

Key Signing Key rollover interval, in seconds.

Type

Unsigned integer.

Create

The default value is 31536000.

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

Key Signing Key size, in bits. Deprecated.

Type

Unsigned integer.

Create

The default value is 2048.
<table>
<thead>
<tr>
<th><strong>ksk_snmp_notification_enabled</strong></th>
</tr>
</thead>
</table>

**ksk_snmp_notification_enabled**  
Enable SNMP notifications for KSK related events.  
**Type**  
Bool.  
**Create**  
The default value is *True*.  

<table>
<thead>
<tr>
<th><strong>next_secure_type</strong></th>
</tr>
</thead>
</table>

**next_secure_type**  
NSEC (next secure) types.  
**Type**  
String.  
**Valid values are:**  
• NSEC  
• NSEC3  
**Create**  
The default value is *NSEC3*.  

<table>
<thead>
<tr>
<th><strong>nsec3_iterations</strong></th>
</tr>
</thead>
</table>

**nsec3_iterations**  
The number of iterations used for hashing NSEC3.  
**Type**  
Unsigned integer.  
**Create**  
The default value is *10*.  

<table>
<thead>
<tr>
<th><strong>nsec3_salt_max_length</strong></th>
</tr>
</thead>
</table>

**nsec3_salt_max_length**  
The maximum length for NSEC3 salts.  
**Type**  
Unsigned integer.  
**Create**  
The default value is *15*.  

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**nsec3_salt_min_length**

*nsec3_salt_min_length*

The minimum length for NSEC3 salts.

**Type**

Unsigned integer.

**Create**

The default value is 1.

**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:**

- 1
- 10
- 3
- 5
- 6
- 7
- 8

**Create**

The default value is 8.
### zsk_algorithms

**Type**
A/An *DNSSEC Key Algorithm* struct array.

**Create**
The default value is:

```json
[{
  'algorithm': 'RSASHA256',
  'size': 1024
}]
```

### zsk_rollover

**Type**
Unsigned integer.

**Create**
The default value is 2592000.

### zsk_rollover_mechanism

**Valid values are:**
- DOUBLE_SIGN
- PRE_PUBLISH

**Create**
The default value is *PRE_PUBLISH*.

### zsk_size

**Type**
Unsigned integer.

**Create**
The default value is 1024.
4.51 **dnssectustedkey : DNSSEC Trusted Key.**

This is the DNSKEY record that holds the KSK as a trust anchor for each zone for which the Grid member returns validated data.

<table>
<thead>
<tr>
<th>algorithm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>algorithm</strong></td>
</tr>
<tr>
<td>The DNSSEC algorithm used to generate the key.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fqdn</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>fqdn</strong></td>
</tr>
<tr>
<td>The FQDN of the domain for which the member validates responses to recursive queries.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>key</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>key</strong></td>
</tr>
<tr>
<td>The DNSSEC key.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>secure_entry_point</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>secure_entry_point</strong></td>
</tr>
</tbody>
</table>
The secure entry point flag, if set it means this is a KSK configuration.

**Type**

Bool.

**Create**

The default value is True.

### 4.52 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*.

---

**4.53 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

The condition’s first term to match against the SNMP health check result.

Type
String.

Create
The default value is empty.

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

The SNMP OID value for DTC SNMP Monitor health checks.

Type
String.

Create
The field is required on creation.
**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.

### 4.54 dtc:pool:link : DTC Pool link.

This structure used to link LBDN object with specific pool from queue.

**pool**

The pool to link with.

**Type**

String.

This field supports nested return fields as described [here](#).

**Create**

The default value is empty.

**ratio**

The weight of pool.

**Type**

Unsigned integer.

**Create**

The default value is empty.

### 4.55 dtc:query:result : Query records.

The structure contains result of a query call.
<table>
<thead>
<tr>
<th>rdata</th>
</tr>
</thead>
<tbody>
<tr>
<td>rdata</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ttl</th>
</tr>
</thead>
<tbody>
<tr>
<td>ttl</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### use_ttl

**use_ttl**

Determines whether the zone TTL is overridden or not.

**Type**

Bool.

**Notes**

use_ttl cannot be updated.

use_ttl cannot be written.

---

### 4.56 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.

---


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*.

---

**4.58  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
- EA1
- EA2
- EA3
- EA4
- SUBDIVISION
- SUBNET

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>source_value</th>
</tr>
</thead>
<tbody>
<tr>
<td>source_value</td>
</tr>
<tr>
<td>The source value.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Create**
The field is required on creation.

### 4.59 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**

The *IPv4 Address* or *IPv6 Address* for the DXL endpoint broker.

**Type**

String.

**Create**

The default value is *empty*.

**host_name**

The *FQDN* for the DXL endpoint broker.

**Type**

String.

**Create**

The field is required on creation.

**port**

The communication port for the DXL endpoint broker.

**Type**

Unsigned integer.

**Create**

The default value is *8883*.

**unique_id**

The unique identifier for the DXL endpoint.

**Type**

String.

**Create**

The default value is *empty*.

**4.60  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

**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

**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
The first operand type.

**Type**

String.

**Valid values are:**

- FIELD
- LIST
- STRING

Create

The default value is `undefined`.

---

**op2**

The second operand value.

**Type**

String.

Create

The default value is `undefined`.

---

**op2_type**

The second operand type.

**Type**

String.

**Valid values are:**

- FIELD
- LIST
- STRING

Create

The default value is `undefined`.

---

### 4.61 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 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**

The *IPv4 Address* ending address of the exclusion range.

**Type**
String.

**Create**
The field is required on creation.

---

**start_address**

The *IPv4 Address* starting address of the exclusion range.

**Type**
String.

**Create**
The field is required on creation.

---

### 4.62 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**

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.

### 4.63 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*.

### 4.64 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

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

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*.

### 4.65 extensibleattributedef:listvalues : List of values.

The structure contains the list of extensible attribute values.
4.66 extserver : External Server.

This struct represents an external DNS server.

**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**

address is part of the base object.

**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**

name is part of the base object.
**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**

shared_with_ms_parent_delegation cannot be updated.

shared_with_ms_parent_delegation cannot be written.

**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**

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**

The TSIG key algorithm.

**Type**

String.

**Valid values are:**

- HMAC-MD5
- HMAC-SHA256
Create
The default value is *HMAC-MD5*.

<table>
<thead>
<tr>
<th>tsig_key_name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>tsig_key_name</strong></td>
</tr>
<tr>
<td>The TSIG key name.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Values with leading or trailing white space are not valid for this field.</td>
</tr>
</tbody>
</table>

Create
The default value is *empty*.

**Notes**
tsig_key_name is associated with the field *use_tsig_key_name* (see *use flag*).

<table>
<thead>
<tr>
<th>use_tsig_key_name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>use_tsig_key_name</strong></td>
</tr>
<tr>
<td>Use flag for: tsig_key_name</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
</tbody>
</table>

Create
The default value is *False*.

### 4.67 extsyslogbackupserver : External syslog backup server.

This structure contains information about the external server for backing up the rotated syslog files.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>address</strong></td>
</tr>
<tr>
<td>The IPv4 or IPv6 address of the backup syslog server.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>

Create
The field is required on creation.
**directory_path**

The directory path for the replication of the rotated syslog files.

- **Type**: String.
- **Create**: The default value is `undefined`.

**enable**

If set to True, the syslog backup server is enabled.

- **Type**: Bool.
- **Create**: The default value is `True`.

**password**

The password of the backup syslog server.

- **Type**: String.
- **Create**: The default value is `undefined`.
  - **Notes**: password is not readable.

**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.

**Create**
The default value is *undefined*.

### 4.68 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*.

**host**

**host**
The host name of the destination server for DNS capture transfer.

**Type**
String.

**Create**
The default value is *empty*.

---

**password**

The password to access the destination server directory.

**Type**
String.

**Create**
The default value is *undefined*.

**Notes**
password is not readable.

---

**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**

The username to access the destination server directory.

**Type**
String.

**Create**
The default value is *empty*.
4.69 filterrule : Filter rule.

This structure references defined DHCP filters.

<table>
<thead>
<tr>
<th>filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter</td>
</tr>
</tbody>
</table>

The name of the DHCP filter.

**Type**
String.

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>permission</th>
</tr>
</thead>
<tbody>
<tr>
<td>permission</td>
</tr>
</tbody>
</table>

The permission to be applied.

**Type**
String.

**Valid values are:**
- Allow
- Deny

**Create**
The field is required on creation.


The FireEye Alert Map used to configure FireEye alerts to Response Policy Zone rules.

<table>
<thead>
<tr>
<th>alert_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>alert_type</td>
</tr>
</tbody>
</table>

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.


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**

The FireEye alert mapping.

Type
A/An *FireEye Alert Map* struct array.

Create
The default value is *undefined*.

**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*.

**4.72 forwardingmemberserver : Forwarding Member Server.**

This struct contains per-Grid-member forwarding configuration.
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*. 
4.73 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**

The time interval between detection processing.

**Type**
Unsigned integer.

**Create**
The default value is `empty`.

**low**

The low threshold value (in percentage) for starting DNS attack detection.

**Type**
Unsigned integer.

**Create**
The default value is `empty`.

4.74 grid:attackmitigation : DNS Attack Mitigation object.

The DNS Attack Mitigation structure provides information about mitigation configuration for DNS attacks.

**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:

```python
{'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:

```json
    {'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:

```json
    {'enable': True,
     'high': 30,
     'interval_max': 1000,
     'interval_min': 10,
     'interval_time': 10,
     'low': 20}
```
The minimum time interval (in seconds) between changes in attack status.

Type
Unsigned integer.
Create
The default value is 10.

**mitigate_nxdomain_lru**

Enable or disable the mitigation of possible NXDOMAIN attacks by splitting the Lease Recently Used (LRU) list into NX (non-existent) RRsets and all other RRsets, and by removing the least recently used items from the LRU list for NX RRsets before removing items for other RRsets.

Type
Bool.
Create
The default value is False.

4.75 grid:autoblackhole : DNS Auto Blackhole settings.

The DNS Auto Blackhole provides information about DNS auto blackhole configuration.

**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**

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.

### 4.76 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

List of Gateway FQDN to AWS Endpoint Mapping.

Type

A/An *Endpoint mapping* struct array.

Create

The default value is *undefined*.

port

Gateway port

Type

Unsigned integer.

Create

The default value is *undefined*.


Structure defining an entry in the mapping table of Gateway to AWS endpoint.

documentation

documentation

endpoint_fqdn

Endpoint FQDN.

Type

String.

Create

The default value is *undefined*.

gateway_fqdn

Gateway FQDN.

Type

String.

Create

The default value is *undefined*. 
4.78 grid:cloudapi:info : Cloud Information.

The structure aggregates all information related to Cloud objects.

<table>
<thead>
<tr>
<th>authority_type</th>
</tr>
</thead>
</table>

**authority_type**

Type of authority over the object.

**Type**

String.

**Valid values are:**

- CP
- GM
- NONE

**Notes**

authority_type cannot be updated.

authority_type cannot be written.

<table>
<thead>
<tr>
<th>delegated_member</th>
</tr>
</thead>
</table>

**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**

deleagted_member is part of the base object.

<table>
<thead>
<tr>
<th>delegated_root</th>
</tr>
</thead>
</table>

**delegated_root**

Indicates the root of the delegation if delegated_scope is SUBTREE or RECLAIMING. This is not set otherwise.

**Type**

String.

**Notes**

deleagted_root cannot be updated.

deleagted_root cannot be written.
**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**

deleagted_scope is part of the base object.
deleagted_scope cannot be updated.
deleagted_scope cannot be written.

**mgmt_platform**

Indicates the specified cloud management platform.

**Type**

String.

**Notes**

mgmt_platform cannot be updated.
mgmt_platform cannot be written.

**owned_by_adaptor**

Determines whether the object was created by the cloud adapter or not.

**Type**

Bool.

**Notes**

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
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
usage is part of the base object.
usage cannot be updated.
usage cannot be written.

4.79 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.
The default value is *undefined*.

**Notes**

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**

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*.

### 4.80 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*.

### 4.81 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*.
4.82 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**

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**

Determines whether the display of the informational level banner is enabled.

**Type**

Bool.

**Create**

The default value is *True*.
message

The message included in the informational level banner.

Type
String.

Create
The default value is empty.

4.83 grid:licenseSubpool : License sub-pool settings.

expiry_date

expiry_date
License expiration date.

Type
Timestamp.

Notes
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
installed cannot be updated.
installed cannot be written.

key

key
The license string for the license subpool.

Type
String.

Notes
key cannot be updated.
key cannot be written.

4.84 grid:loggingcategories : Grid logging setting information.

The logging categories. It is possible to specify several BIND logging message categories to be captured by syslog.

<table>
<thead>
<tr>
<th>log_client</th>
</tr>
</thead>
</table>

log_client
Determines whether the client requests are captured or not.

**Type**
Bool.

**Create**
The default value is undefined.

<table>
<thead>
<tr>
<th>log_config</th>
</tr>
</thead>
</table>

log_config
Determines whether the configuration file parsing is captured or not.

**Type**
Bool.

**Create**
The default value is undefined.

<table>
<thead>
<tr>
<th>log_database</th>
</tr>
</thead>
</table>

log_database
Determines whether the BIND’s internal database processes are captured or not.

**Type**
Bool.

**Create**
The default value is undefined.

<table>
<thead>
<tr>
<th>log_dnssec</th>
</tr>
</thead>
</table>

log_dnssec
Determines whether the DNSSEC-signed responses are captured or not.

**Type**
Bool.
Create
The default value is undefined.

**log_dtc_gslb**

Determines whether the DTC GSLB activity is captured or not.
**Type**
Bool.
**Create**
The default value is undefined.

**log_dtc_health**

Determines whether the DTC health monitoring information is captured or not.
**Type**
Bool.
**Create**
The default value is undefined.

**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**

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.
<table>
<thead>
<tr>
<th><strong>log_rate_limit</strong></th>
</tr>
</thead>
</table>
| **log_rate_limit**
| Determines whether the rate limit messages are captured or not.
| **Type**
| Bool.
| **Create**
| The default value is *undefined*.

<table>
<thead>
<tr>
<th><strong>log_resolver</strong></th>
</tr>
</thead>
</table>
| **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*.

<table>
<thead>
<tr>
<th><strong>log_responses</strong></th>
</tr>
</thead>
</table>
| **log_responses**
| Determines whether the response messages are captured or not.
| **Type**
| Bool.
| **Create**
| The default value is *undefined*.

<table>
<thead>
<tr>
<th><strong>log_rpz</strong></th>
</tr>
</thead>
</table>
| **log_rpz**
| Determines whether the Response Policy Zone messages are captured or not.
| **Type**
| Bool.
| **Create**
| The default value is *undefined*. |
**log_security**

Determines whether the approved and denied requests are captured or not.

**Type**
Bool.

**Create**
The default value is `undefined`.

**log_update**

Determines whether the dynamic update instances are captured or not.

**Type**
Bool.

**Create**
The default value is `undefined`.

**log_update_security**

Determines whether the security update messages are captured or not.

**Type**
Bool.

**Create**
The default value is `undefined`.

**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

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*.


The Grid NTP settings structure is used to control the NTP synchronization of the date and time for all Infoblox appliances.

**enable_ntp**

Determines whether NTP is enabled on the Grid.

**Type**

Bool.

**Create**

The default value is *False*.

**ntp_acl**

The NTP access control settings.

**Type**

A/An *The Network Time Protocol (NTP) access control setting struct*.

**Create**

The default value is:

```json
{
    'ac_list': [],
    'acl_type': 'NONE',
    'service': 'TIME'
}
```

**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`

#### 4.86 grid:responsraterelimiting : 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*.

---

**4.87 grid:restartbannersetting : Restart Banner Setting.**

This structure contains information about the Restart Banner.
**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**

If set to True, the restart banner is enabled.

- **Type**
  - Bool.
- **Create**
  - The default value is *True*.

**4.88 grid:servicerestart : Restart Setting.**

The restart setting at the Grid level.

**delay**

The time duration to delay a restart for a restart group.

- **Type**
  - Unsigned integer.
- **Create**
  - The default value is *10*.

**restart_offline**

Determines whether the Grid should try to restart offline member.

- **Type**
  - Bool.
- **Create**
  - The default value is *True*.
timeout

The duration of timeout for a restart group. The value “-1” means infinite.

Type
Integer.
Create
The default value is 60.


This struct contains information about Restart Group scheduling settings.

force

Determines if the Restart Group should have a force restart.

Type
Bool.
Create
The default value is False.

mode

The restart method for a Grid restart.

Type
String.
Valid values are:
• GROUPED
• SEQUENTIAL
• SIMULTANEOUS
Create
The default value is empty.
**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**

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.

### 4.90 gridmember_soamname : Per-master SOA MNAME Information.

This struct contains the SOA MNAME and the primary server for this zone.

**dns_mname**

Master’s SOA MNAME in punycode format.

**Type**

String.

**Notes**

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
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
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
ms_server_primary is part of the base object.

4.91 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**
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**
ms_server_primary cannot be updated.
ms_server_primary cannot be written.

**serial**

**serial**
The SOA serial number.

**Type**
Unsigned integer.

**Notes**
serial cannot be updated.
serial cannot be written.

**4.92 hotfix : Upgrade process hotfix.**

The structure provides information about the status of upgrade process hotfixes.
**status_text**

The status text of the hotfix.

**Type** String.

**Create**
The default value is *undefined*.

**unique_id**

The unique id of the hotfix.

**Type** String.

**Create**
The default value is *undefined*.


The Hardware Security Module (HSM) SafeNet structure represents the HSM SafeNet device configuration.

**disable**

Determines whether the HSM SafeNet device is disabled.

**Type** Bool.

**Create**
The default value is *False*.

**is_fips_compliant**

Determines whether the HSM SafeNet device is FIPS compliant.

**Type** Bool.

**Notes**
is_fips_compliant cannot be updated.
is_fips_compliant cannot be written.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
<tr>
<td>The HSM SafeNet device IPv4 Address or FQDN.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>partition_capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition_capacity</td>
</tr>
<tr>
<td>The HSM SafeNet device partition capacity percentage used.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>partition_capacity cannot be updated.</td>
</tr>
<tr>
<td>partition_capacity cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>partition_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition_id</td>
</tr>
<tr>
<td>The partition ID that is displayed after appliance has successfully connected to the HSM SafeNet device.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>partition_id cannot be updated.</td>
</tr>
<tr>
<td>partition_id cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>partition_serial_number</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition_serial_number</td>
</tr>
<tr>
<td>The HSM SafeNet device partition serial number (PSN).</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>
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

The HSM SafeNet device status.

Type
String.

Valid values are:
- DOWN
- UP

Notes
status cannot be updated.
status cannot be written.


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`. 
<table>
<thead>
<tr>
<th><strong>keyhash</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>keyhash</strong></td>
</tr>
<tr>
<td>The Thales HSM device public key digest.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>empty</em>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>remote_esn</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>remote_esn</strong></td>
</tr>
<tr>
<td>The Thales HSM device electronic serial number.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>remote_esn cannot be updated.</td>
</tr>
<tr>
<td>remote_esn cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>remote_ip</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>remote_ip</strong></td>
</tr>
<tr>
<td>The <em>IPv4 Address</em> of the Thales HSM device.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>remote_port</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>remote_port</strong></td>
</tr>
<tr>
<td>The Thales HSM device destination port.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>9004</em>.</td>
</tr>
</tbody>
</table>
### status

**status**

The Thales HSM device status.

**Type**

String.

**Valid values are:**

- DOWN
- UP

**Notes**

status cannot be updated.

status cannot be written.

---

### 4.95 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

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.

### 4.96 ipv6setting : IPv6 Settings.

The structure contains IPv6 settings for a member.

#### auto_router_config_enabled

Determines if automatic router configuration should be enabled.

**Type**

Bool.

**Create**

The default value is `undefined`.

#### cidr_prefix

IPv6 cidr prefix

**Type**

Unsigned integer.

**Create**

The default value is `undefined`.

#### 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**

IPv6 address.
Type
String.
Create
The default value is undefined.

**vlan_id**

The identifier for the VLAN. Valid values are from 1 to 4096.
Type
Unsigned integer.
Create
The default value is empty.

**4.97 lan2portsetting : LAN2 Port Setting.**

Settings used to configure IP parameters for the LAN2 port.

**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.
If the ‘enable’ field is set to True, this defines IPv4 network settings for LAN2.

**nic_failover_enable_primary**

Prefer LAN1 when available.

**nic_failover_enabled**

Determines if NIC failover is enabled or not.

**v6_network_setting**

If the ‘enable’ field is set to True, this defines IPv6 network settings for the LAN2 port.
**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*.

### 4.98 lanhaportsetting : LAN/HA Port Settings.

This structure contains LAN/HA port settings for the HA node.

**ha_ip_address**

HA IP address.

**Type**

String.

**Create**

The default value is *undefined*.

**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**

Physical port settings for the LAN interface.

**Type**

A/An *Physical Port Settings* struct.

**Create**

The default value is *undefined*.
**mgmt_ipv6addr**

Public IPv6 address for the LAN1 interface.

**Type**
String.

**Create**
The default value is *undefined*.

**mgmt_lan**

Public IPv4 address for the LAN1 interface.

**Type**
String.

**Create**
The default value is *undefined*.

**Notes**

*mgmt_lan* is part of the base object.

### 4.99 ldap_eamapping: The LDAP extensible attribute mapping.

This structure is used to map LDAP fields to NIOS extensible attributes.

**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**

The LDAP attribute name.

**Type**
String.
Create
The field is required on creation.

4.100 ldap_server : The LDAP server structure.
This structure is used for LDAP authentication configuration.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
</tr>
</tbody>
</table>
The IP address or FQDN of the LDAP server.
Type
String.
Create
The field is required on creation.

<table>
<thead>
<tr>
<th>authentication_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>authentication_type</td>
</tr>
</tbody>
</table>
The authentication type for the LDAP server.
Type
String.
Valid values are:
- ANONYMOUS
- AUTHENTICATED
Create
The default value is ANONYMOUS.

<table>
<thead>
<tr>
<th>base_dn</th>
</tr>
</thead>
<tbody>
<tr>
<td>base_dn</td>
</tr>
</tbody>
</table>
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 field is required on creation.

**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.

4.101 logicfilterrule: Logic Filter rule.

This structure references defined DHCP filters.

<table>
<thead>
<tr>
<th>filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter</td>
</tr>
<tr>
<td>The filter name.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>The filter type. Valid values are:</td>
</tr>
<tr>
<td>• MAC</td>
</tr>
<tr>
<td>• NAC</td>
</tr>
<tr>
<td>• Option</td>
</tr>
</tbody>
</table>

Create
The field is required on creation.

4.102 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.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
</tr>
<tr>
<td>The IPv4 Address of the Grid member.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>
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**
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*.

**4.103 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**

The descriptive comment for the LOM user.

**Type**
String.

**Create**
The default value is *empty*.

**disable**

Determines whether the LOM user is disabled.

**Type**
Bool.

**Create**
The default value is *False*.

**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**

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**
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*.

**4.104 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 \textit{INTERFACE}.

\begin{verbatim}
\textbf{glue_record_address}
\end{verbatim}

\textbf{glue_record_address}
The address the appliance uses to generate the glue record.

\textbf{Type}
String.

\textbf{Create}
The default value is \textit{undefined}.

\begin{verbatim}
\textbf{view}
\end{verbatim}

\textbf{view}
The name of the DNS View in which the record resides. Example: “external”.

\textbf{Type}
String.

\textbf{Create}
The field is required on creation.

\textbf{4.105 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.

\begin{verbatim}
\textbf{enable_external_ntp_servers}
\end{verbatim}

\textbf{enable_external_ntp_servers}
Determines whether the use of the external NTP servers is enabled for the member.

\textbf{Type}
Bool.

\textbf{Create}
The default value is \textit{False}.
**enable_ntp**

Determine whether the NTP service is enabled on the member.

**Type**

Bool.

**Create**

The default value is *False*.

**exclude_grid_master_ntp_server**

Determine whether the Grid Master is excluded as an NTP server.

**Type**

Bool.

**Create**

The default value is *False*.

**ntp_acl**

The NTP access control settings.

**Type**

A/An *The Network Time Protocol (NTP) access control setting* struct.

**Create**

The default value is:

```json
{  'ac_list': [],  'acl_type': 'NONE',  'service': 'TIME'}
```

**Notes**

*ntp_acl* is associated with the field *use_ntp_acl* (see *use flag*).

**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:
### ntp_keys

#### notes

ntp_keys is associated with the field *use_ntp_keys* (see *use flag*).

### ntp_kod

#### notes

ntp_kod is associated with the field *use_ntp_kod* (see *use flag*).

### ntp_servers

#### notes

ntp_servers is associated with the field *use_ntp_servers* (see *use flag*).

### use_ntp_acl

#### notes

The default value is *False*.

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**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*.

**4.106 member:pnodetoken : Pysical 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**
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**

- token cannot be updated.
- token cannot be written.

### token_exp_date

**token_exp_date**

Time when the token expires.

**Type**

Timestamp.

**Notes**

- token_exp_date cannot be updated.
- token_exp_date cannot be written.

### 4.107 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

The flag represents DNS zone transfers if set to True, and ID Grid Replication if set to False. 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 False.

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

The grid member name.

Type
String.

Create
The field is required on creation.

preferred_primaries

The primary preference list with Grid member names and/or 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*.

### 4.108 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**
option is part of the base object.
option cannot be updated.
option cannot be written.

**service**

**service**
The service for a Grid member.
**Type**
String.
**Valid values are:**
- AD
- GRID
Create

The default value is undefined.

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>Communication type.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
</tr>
<tr>
<td>• IPV4</td>
</tr>
<tr>
<td>• IPV6</td>
</tr>
</tbody>
</table>

Create

The default value is undefined.

4.109 membersservicestatus : Member Service Status.

This structure contains a service status of the Grid Member.

<table>
<thead>
<tr>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
</tr>
<tr>
<td>The description of the current service status.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Notes</td>
</tr>
<tr>
<td>description cannot be updated.</td>
</tr>
<tr>
<td>description cannot be written.</td>
</tr>
</tbody>
</table>
**service**

**service**
The service identifier.

**Type**
String.

**Valid values are:**
- ANALYTICS
- ATP
- BLOXTOOLS
- CAPTIVE_PORTAL
- CLOUD_API
- DHCP
- DISCOVERY
- DNS
- DNS_CACHE_ACCELERATION
- FTP
- HSM
- HTTP_FILE_DIST
- NTP
- REPORTING
- TAXII
- TFTP

**Notes**
- 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
status cannot be updated.
status cannot be written.

4.110 mgmtportsetting: MGMT Port Setting.

The structure that defines whether the MGMT port settings must be used.

<table>
<thead>
<tr>
<th>enabled</th>
</tr>
</thead>
</table>

`enabled` Determines if MGMT port settings should be enabled.

Type
Bool.

Create
The default value is `False`.

<table>
<thead>
<tr>
<th>security_access_enabled</th>
</tr>
</thead>
</table>

`security_access_enabled` Determines if security access on the MGMT port is enabled or not.

Type
Bool.

Create
The default value is `False`.

<table>
<thead>
<tr>
<th>vpn_enabled</th>
</tr>
</thead>
</table>

`vpn_enabled` Determines if VPN on the MGMT port is enabled or not.

Type
Bool.

Create
The default value is `False`. 

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4.111 msdhcoption : 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.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
</tr>
<tr>
<td>The name of the DHCP option.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is empty.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>num</th>
</tr>
</thead>
<tbody>
<tr>
<td>num</td>
</tr>
<tr>
<td>The code of the DHCP option.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
</tr>
<tr>
<td>The DHCP option type. Valid values are:</td>
</tr>
<tr>
<td>• “16-bit signed integer”</td>
</tr>
<tr>
<td>• “16-bit unsigned integer”</td>
</tr>
<tr>
<td>• “32-bit signed integer”</td>
</tr>
<tr>
<td>• “32-bit unsigned integer”</td>
</tr>
<tr>
<td>• “64-bit unsigned integer”</td>
</tr>
<tr>
<td>• “8-bit signed integer”</td>
</tr>
<tr>
<td>• “8-bit unsigned integer (1,2,4,8)”</td>
</tr>
<tr>
<td>• “8-bit unsigned integer”</td>
</tr>
<tr>
<td>• “array of 16-bit integer”</td>
</tr>
<tr>
<td>• “array of 16-bit unsigned integer”</td>
</tr>
</tbody>
</table>
• “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
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 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*.

---

### 4.112 msdhcpserver : MS DHCP server.

This struct contains the name and address of the Microsoft(r) DHCP server.

---

### ipv4addr

**ipv4addr**

The **IPv4 Address** or **FQDN** of the Microsoft server.

**Type**

String.

**Create**

The field is required on creation.

---

### 4.113 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
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
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
ns_name is part of the base object.
**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**

shared_with_ms_parent_delegation cannot be updated.

shared_with_ms_parent_delegation cannot be written.

**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*.

---

**4.114 msserver:aduser : Microsoft Server AD user.**

This structure contains information about the Microsoft Server Active Directory user synchronization.

**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**
last_success_sync_time cannot be updated.
last_success_sync_time cannot be written.

last_sync_detail

The detailed status of the last synchronization attempt.

**Type**
String.

**Notes**
last_sync_detail cannot be updated.
last_sync_detail cannot be written.

last_sync_status

The status of the last synchronization attempt.

**Type**
String.

**Notes**
last_sync_status cannot be updated.
last_sync_status cannot be written.

last_sync_time

Timestamp of the last synchronization attempt.

**Type**
Timestamp.

**Notes**
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_user_sync**

*use_enable_user_sync*
Use flag for: enable_user_sync

**Type**

Bool.

**Create**

The default value is *False*.

---

**use_login**

**use_login**

Use flag for: login_name, login_password

**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*.

---

**4.115 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**

active_users_count cannot be updated.

active_users_count cannot be written.

The Active Directory Domain Controller object represents the Active Directory domain controller that is allowed to create NS records for authoritative zones.

**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**

Optional user comment.

- **Type**: String.
- **Values with leading or trailing white space are not valid for this field.**
- **Create**: The default value is `empty`.

4.117 natsetting : NAT Settings.

The structure contains NAT settings for a member.

**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*.

### 4.118 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**
failovers cannot be updated.
failovers cannot be written.

**member**

**member**
The member object associated with a network view.

**Type**
String.

**Notes**
member cannot be updated.
member cannot be written.

### 4.119 nodeinfo : Node Info.

This structure contains a detailed status report about Grid member operations.

<table>
<thead>
<tr>
<th><strong>ha_status</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ha_status</strong></td>
</tr>
</tbody>
</table>
Status about the node of an HA pair.

**Type**
String.

**Valid values are:**
- ACTIVE
- NOT_CONFIGURED
- PASSIVE

**Notes**
ha_status cannot be updated.
ha_status cannot be written.

<table>
<thead>
<tr>
<th><strong>hwid</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>hwid</strong></td>
</tr>
</tbody>
</table>
Hardware ID.

**Type**
String.

**Notes**
hwid cannot be updated.
hwid cannot be written.
### hwmodel

**hwmodel**

Hardware model.

**Type**

String.

**Notes**

hwmodel cannot be updated.

hwmodel cannot be written.

### hwplatform

**hwplatform**

The platform on which NIOS is running on.

**Type**

String.

**Valid values are:**

- AWS
- AZURE
- HYPERV
- KVM
- PHYSICAL
- UNKNOWN
- VMWARE
- XEN

**Notes**

hwplatform cannot be updated.

hwplatform cannot be written.

### hwtype

**hwtype**

Hardware type.

**Type**

String.

**Notes**

hwtype cannot be updated.

hwtype 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**
paid_nios cannot be updated.
paid_nios cannot be written.

**physical_oid**

**physical_oid**
The OID of the physical node.

**Type**
String.

**Notes**
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**
service_status cannot be updated.
service_status cannot be written.
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.

4.120 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.


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**  
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*.

### 4.122 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.

<table>
<thead>
<tr>
<th>op</th>
</tr>
</thead>
<tbody>
<tr>
<td>op</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>op1</th>
</tr>
</thead>
<tbody>
<tr>
<td>op1</td>
</tr>
</tbody>
</table>
Rule expression first operand value.

Type
String.

Valid values are:

• ADDRESS_TYPE
• DHCP_FINGERPRINT
• DHCP_IP_ADDRESS
• DHCPLEASE_STATE
• DISABLE
• DNS_RPZ_ACTION_POLICY
• DNS_RPZ_NAME
• DNS_RPZ_RULE_NAME
• DNS_RPZ_TYPE
• DUID
• HOST
• IPV4_ADDRESS
• IPV6_ADDRESS
• IPV6_PREFIX
• IPV6_PREFIX_BITS
• MAC
• NAME
• NETWORK
• NETWORK_VIEW
• SECURITY_ADJP_RULE_MESSAGE
• SECURITY_ADJP_RULE_SEVERITY
• SECURITY_ADJP_SID
• SERVER_ASSOC_TYPE_IPV4
• SERVER_ASSOC_TYPE_IPV6
• SOURCE_IP

Create
The default value is undefined.

<table>
<thead>
<tr>
<th>op1_type</th>
</tr>
</thead>
</table>
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`.

---

**4.123 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.
The client address/network with access control.

Type
A/An Address ac struct.

Create
The field is required on creation.

The type of service with access control.

Type
String.

Valid values are:

- TIME
- TIME_AND_NTPQ

Create
The default value is TIME.

4.124 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.

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

The NTP access control list type.

Type
String.

Valid values are:
- LIST
- NAMED_ACL
- NONE

Create
The default value is NONE.

named_acl

The NTP access named ACL.

Type
String.

Create
The default value is empty.

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.


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

**Create**
The field is required on creation.

---

**4.126 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**

The NTP server IP address or FQDN.

**Type**
String.

**Create**
The field is required on creation.

**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**

Determines whether the NTP authentication is enabled.

**Type**
Bool.

**Create**
The default value is False.

**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*.

### 4.127 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

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*.

4.128 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

Determines whether the objects changes tracking feature is enabled or not.

Type
Bool.

Create
The default value is *False*.

enable_completion

Determines the percentage of completion for objects changes tracking.

Type
Unsigned integer.

Notes
enable_completion cannot be updated.
enable_completion cannot be written.

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**
state cannot be updated.
state cannot be written.

4.129 **ocsp_responder : OCSP Responder.**

This struct provides configuration for OCSP Responder.
**certificate**

The reference to the OCSP responder certificate.

**Type**

String.

This field supports nested return fields as described here.

**Notes**

Certificate cannot be updated.

Certificate cannot be written.

**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**

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**

Determines if this OCSP authentication responder is disabled.

**Type**

Bool.

**Create**
The default value is *undefined*.

**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**

The port used for connecting.

**Type**

Unsigned integer.

**Create**

The default value is *undefined*.

### 4.130 option60matchrule : Option 60 Match Rule.

An Option 60 Match Rule structure allows specifying match rules for Option 60 globally.

**is_substring**

Determines if the match value is a substring.

**Type**

Bool.

**Create**

The default value is *False*.

**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`.

### 4.131 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
authentication_key cannot be updated.
authentication_key is not readable.

<table>
<thead>
<tr>
<th>authentication_type</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>auto_calc_cost_enabled</th>
</tr>
</thead>
</table>

**auto_calc_cost_enabled**
Determines if auto calculate cost is enabled or not.

**Type**
Bool.

**Create**
The field is required on creation.

<table>
<thead>
<tr>
<th>bfd_template</th>
</tr>
</thead>
</table>

**bfd_template**
Determines BFD template name.

**Type**
String.

**Create**
The default value is empty.
**comment**

A descriptive comment of the OSPF configuration.

**Type**
String.

**Create**
The default value is *Empty string*.

**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**

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**

Determines if the BFD is enabled or not.

**Type**
Bool.

**Create**
The default value is *False*. 
**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

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

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.

4.132 physicalportsetting : Physical Port Settings.

This structure contains settings for an appliance physical port.

auto_port_setting_enabled

Enable or disable the auto port setting.

Type
Bool.

Create
The default value is undefined.

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**

The port speed; if speed is 1000, duplex is FULL.

**Type**
String.

**Valid values are:**
- 10
- 100
- 1000

Create
The default value is *undefined*.

### 4.133 preprovision : Pre-provisioning Settings.

The structure contains pre-provisioning settings.

**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**

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:**
Create
The field is required on creation.

4.134 preprovisionhardware: Pre-provisioning Hardware Settings.

The structure contains hardware information for a pre-provisioned member.

| hwmodel |

hwmodel

Hardware model - for IB-4010 are Rev1, Rev2; for IB-4030 are Rev1, Rev2; for PT-4000 is Rev2; for IB-VNIOS are IB-VM-100, IB-VM-810, IB-VM-820, IB-VM-RSP, IB-VM-1410, IB-VM-1420, IB-VM-2210, IB-VM-2220, IB-VM-4010, CP-V800, CP-V1400, CP-V2200. Note that you cannot specify hwmodel for following hardware types: IB-FLEX, IB-V2215, IB-V1425, IB-V4025, IB-V4015, IB-V1415, IB-V815, IB-V825, IB-V2225.

Type
String.

Valid values are:

- CP-V1400
- CP-V2200
- CP-V800
- IB-VM-100
- IB-VM-1410
- IB-VM-1420
- IB-VM-2210
- IB-VM-2220
- IB-VM-4010
Create

The default value is *undefined*.

**hwtype**

*hwtype*

Hardware type.

**Type**

String.

**Valid values are:**

- IB-100
- IB-1410
- IB-1415
- IB-1420
- IB-1425
- IB-2210
- IB-2215
- IB-2220
- IB-2225
- IB-4010
- IB-4015
- IB-4020
- IB-4025
- IB-4030
- IB-4030-10GE
- IB-4035
- IB-810
- IB-815
- IB-820
- IB-825
- IB-FLEX
- IB-RSP2
Create
The field is required on creation.


This struct contains information about blackout settings.

<table>
<thead>
<tr>
<th>blackouts duration</th>
</tr>
</thead>
</table>

blackouts duration
The blackout duration in seconds; minimum value is 1 minute.

Type
Unsigned integer.

Create
The default value is empty.

<table>
<thead>
<tr>
<th>blackouts schedule</th>
</tr>
</thead>
</table>

blackouts schedule
A Schedule Setting struct that determines blackout schedule.

Type
A/An Schedule Setting struct.
Create
The default value is undefined.

**enable_blackout**

Determines whether a blackout is enabled or not.
Type
Bool.
Create
The field is required on creation.

### 4.136 queriesuser : Queries user.

This structure contains information about the SNMPv3 queries user.

**comment**

A descriptive comment for this queries user.
Type
String.
Create
The default value is empty.

**user**

The SNMPv3 user.
Type
String.
Create
The default value is empty.

### 4.137 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 the RADIUS accounting is enabled.
*Type*
Bool.
*Create*
The default value is *True*.
### use_mgmt_port

**use_mgmt_port**

Determines whether the connection via the management interface is allowed.

**Type**

Bool.

**Create**

The default value is *False*.

### 4.138 remoteddnszone : Remote DDNS Zone structure.

The Remote DDNS Zone structure provides information about the remote DDNS zone associated with a particular object.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>fqdn</strong></td>
<td>The FQDN of the remote server.</td>
</tr>
<tr>
<td><strong>gss_tsig_dns_principal</strong></td>
<td>The principal name in which GSS-TSIG for dynamic updates is enabled.</td>
</tr>
<tr>
<td><strong>gss_tsig_domain</strong></td>
<td>The domain in which GSS-TSIG for dynamic updates is enabled.</td>
</tr>
</tbody>
</table>

**fqdn**

The FQDN of the remote server.

**Type**

String.

**Create**

The field is required on creation.

**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**

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.

<table>
<thead>
<tr>
<th>tsig_key_name</th>
</tr>
</thead>
</table>

**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.

### 4.139 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.

<table>
<thead>
<tr>
<th>backup_frequency</th>
</tr>
</thead>
</table>

**backup_frequency**
The frequency of backups.

**Type**
String.

**Valid values are:**

- DAILY
- HOURLY
- WEEKLY

**Create**
The default value is WEEKLY.

<table>
<thead>
<tr>
<th>backup_server</th>
</tr>
</thead>
</table>

**backup_server**
The IP address of the backup server.

**Type**
String.

**Create**
The default value is *empty*.

### 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

Determines whether the restore of the NetMRI data is enabled.

**Type**
Bool.

**Create**
The default value is *True*.

### enable

Determines whether the scheduled backup is enabled.

**Type**
Bool.

**Create**
The default value is *True*.
execute

The state for scheduled backup or restore operation.

Type
String.

Valid values are:

• TRIGGER

Create
The default value is undefined.

Notes
execute cannot be updated.
execute is not readable.

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

Determines whether the local backup performed before uploading backup to remote storage.

Type
Bool.

Create
The default value is False.

minutes_past_hour

The minute of the hour when the backup is performed.

Type
Unsigned integer.

Create
The default value is 0.

<table>
<thead>
<tr>
<th>nios_data</th>
</tr>
</thead>
</table>

Determines whether the restore of the NIOS data is enabled.

**Type**

Bool.

**Create**

The default value is True.

<table>
<thead>
<tr>
<th>operation</th>
</tr>
</thead>
</table>

The scheduled backup operation.

**Type**

String.

**Valid values are:**

- BACKUP
- NONE
- RESTORE

**Create**

The default value is NONE.

<table>
<thead>
<tr>
<th>password</th>
</tr>
</thead>
</table>

The user password on the backup server.

**Type**

String.

**Create**

The default value is undefined.

**Notes**

password cannot be updated.
password is not readable.
### path

The directory path to the backup file stored on the server.

**Type**

String.

**Create**

The default value is *empty*.

### restore_password

The password on the restore server.

**Type**

String.

**Create**

The default value is *undefined*.

**Notes**

- `restore_password` cannot be updated.
- `restore_password` is not readable.

### restore_path

The directory path to the restored file on the server.

**Type**

String.

**Create**

The default value is *empty*.

### restore_server

The IP address of the restore server.

**Type**

String.

**Create**

The default value is *empty*.
**restore_type**

The destination of the restore files.

**Type**
String.

**Valid values are:**
- FTP
- SCP

**Create**
The default value is *FTP*.

**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**

Determines whether the restore of the Splunk application data is enabled.

**Type**
Bool.

**Create**
The default value is *True*.

**status**

The status of the scheduled backup.

**Type**
String.

**Valid values are:**
- ABORTED
• FAILED
• FINISHED
• IDLE
• IN_PROGRESS
• ROLL
• ROLLED
• SCHEDULING
• TRIGGERED

Notes
status cannot be updated.
status cannot be written.

**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*. 
4.140 servicestatus : Node Service Status.

This structure contains a service status of the Grid Member’s node.

<table>
<thead>
<tr>
<th><strong>description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>description</strong></td>
</tr>
<tr>
<td>The description of the current service status.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td>description cannot be updated.</td>
</tr>
<tr>
<td>description cannot be written.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>service</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>service</strong></td>
</tr>
<tr>
<td>The service identifier.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td><strong>Valid values are:</strong></td>
</tr>
<tr>
<td>• AUTH_NAMED</td>
</tr>
<tr>
<td>• BFD</td>
</tr>
<tr>
<td>• BGP</td>
</tr>
<tr>
<td>• CORE_FILES</td>
</tr>
<tr>
<td>• CPU1_TEMP</td>
</tr>
<tr>
<td>• CPU2_TEMP</td>
</tr>
<tr>
<td>• CPU_USAGE</td>
</tr>
<tr>
<td>• CPU_USAGE</td>
</tr>
<tr>
<td>• DB_OBJECT</td>
</tr>
<tr>
<td>• DISCOVERY_CAPACITY</td>
</tr>
<tr>
<td>• DISK_SIZE</td>
</tr>
<tr>
<td>• DISK_USAGE</td>
</tr>
<tr>
<td>• ENET_HA</td>
</tr>
<tr>
<td>• ENET_LAN</td>
</tr>
<tr>
<td>• ENET_LAN2</td>
</tr>
<tr>
<td>• ENET_MGMT</td>
</tr>
<tr>
<td>• EXTERNAL_STORAGE</td>
</tr>
</tbody>
</table>
• FAN1
• FAN2
• FAN3
• FAN4
• FAN5
• FAN6
• FAN7
• FAN8
• JOIN_STATUS
• LCD
• MEMORY
• MGM_SERVICE
• NETWORK_CAPACITY
• NODE_STATUS
• NTP_SYNC
• OSPF
• OSPF6
• PASSIVE_HA_CONNECTIVITY
• POWER1
• POWER2
• POWER3
• POWER4
• POWER_SUPPLY
• 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_USAG
• SYS_TEMP
• VPN_CERT

Notes
service cannot be updated.
service cannot be written.

**status**

**status**
The service status.

**Type**
String.

**Valid values are:**
• FAILED
• INACTIVE
• WARNING
• WORKING

Notes
status cannot be updated.
status cannot be written.

**4.141 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**

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_resoler or alternate_resoler is set.

**Type**

String array.

Create

The default value is *empty*.

### 4.142 setting:dynamicratio : Dynamic Ratio Setting for DTC Pool.

This structure contains configuration for dynamic ratio load balancing.

**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**

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*.

---

### 4.143 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*.

<table>
<thead>
<tr>
<th>enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enabled</strong></td>
</tr>
<tr>
<td>Determines if email notification is enabled or not.</td>
</tr>
</tbody>
</table>

**Type**
Bool.

**Create**
The default value is *False*.

<table>
<thead>
<tr>
<th>relay</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>relay</strong></td>
</tr>
<tr>
<td>The relay name or IP address.</td>
</tr>
</tbody>
</table>

**Type**
String.

**Create**
The default value is *empty*.

<table>
<thead>
<tr>
<th>relay_enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>relay_enabled</strong></td>
</tr>
<tr>
<td>Determines if email relay is enabled or not.</td>
</tr>
</tbody>
</table>

**Type**
Bool.

**Create**
The default value is *False*.

## 4.144 setting:htpproxyserver : HTTP Proxy Server Setting.

The Grid HTTP Proxy Server Setting object provides information about the HTTP proxy server configuration.
address

The address of the HTTP proxy server.

Type
String.

Create
The field is required on creation.

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

The descriptive comment for the HTTP proxy server configuration.

Type
String.

Create
The default value is empty.

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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_proxy</strong></td>
<td>Determines if the HTTP proxy server is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>enable_username_and_password</strong></td>
<td>Determines if username and password for HTTP Proxy Server connectivity is used or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is False.</td>
</tr>
<tr>
<td><strong>password</strong></td>
<td>The password for the HTTP proxy server.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>String.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The default value is undefined.</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>password is not readable.</td>
</tr>
<tr>
<td><strong>port</strong></td>
<td>The port on which the HTTP proxy server listens.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>The field is required on creation.</td>
</tr>
</tbody>
</table>
username

The user name for the HTTP proxy server.

Type
String.
Create
The default value is empty.

verify_cname

Determines if the CNAME record query verification is enabled or not.

Type
Bool.
Create
The default value is False.


This struct contains information about the IPAM threshold settings.

reset_value

Indicates the percentage point which resets the email/SNMP trap sending.

Type
Unsigned integer.
Create
The default value is 85.

trigger_value

Indicates the percentage point which triggers the email/SNMP trap sending.

Type
Unsigned integer.
Create
The default value is 95.
4.146 setting:ipam:trap : IPAM Trap Settings.

This struct contains information about the IPAM trap settings.

<table>
<thead>
<tr>
<th>enable_email_warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_email_warnings</strong></td>
</tr>
<tr>
<td>Determines whether sending warnings by email is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>enable_snmp_warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_snmp_warnings</strong></td>
</tr>
<tr>
<td>Determines whether sending warnings by SNMP is enabled or not.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is <em>False</em>.</td>
</tr>
</tbody>
</table>

4.147 setting:msserver : Microsoft server settings structure.

<table>
<thead>
<tr>
<th>ad_user_default_timeout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ad_user_default_timeout</strong></td>
</tr>
<tr>
<td>Determines the default timeout value (in seconds) for Active Directory user synchronization for all Microsoft servers.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
</tr>
<tr>
<td>The default value is 7200.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>default_ip_site_link</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>default_ip_site_link</strong></td>
</tr>
<tr>
<td>The default IP site link for sites created on NIOS for all Microsoft servers.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>
Create

The default value is `DEFAULTIPSITELINK`.

<table>
<thead>
<tr>
<th>enable_ad_user_sync</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_ad_user_sync</strong></td>
</tr>
</tbody>
</table>
| 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`.

<table>
<thead>
<tr>
<th>enable_dhcp_monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_dhcp_monitoring</strong></td>
</tr>
</tbody>
</table>
| 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`.

<table>
<thead>
<tr>
<th>enable_dns_monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_dns_monitoring</strong></td>
</tr>
</tbody>
</table>
| 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`.

<table>
<thead>
<tr>
<th>enable_dns_reports_sync</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>enable_dns_reports_sync</strong></td>
</tr>
</tbody>
</table>
| Determines if DNS reports data synchronization from all Microsoft servers in the Grid is enabled or not.

**Type**

`Bool`.

Create

The default value is `True`.

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**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**

Determines the maximum number of connections to Microsoft servers.

**Type**
Unsigned integer.

**Create**
The default value is 5.

**rpc_timeout**

Determines the timeout value (in seconds) for RPC connections to all Microsoft servers.

**Type**
Unsigned integer.

**Create**
The default value is 10.


This structure contains a network settings for the member.

**address**

The IPv4 Address of the Grid Member.

**Type**
String.

**Create**
The default value is empty.

**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

The default gateway for the Grid Member.

Type
String.

Create
The default value is "empty".

primary

Determines if the current address is the primary VLAN address or not.

Type
Bool.

Create
The default value is "True".

subnet_mask

The subnet mask for the Grid Member.

Type
String.

Create
The default value is "empty".

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*.

---

**4.149 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*. 

---

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**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*.

**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_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.

### 4.150 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*. 

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**

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**

The time zone for the schedule.

**Type**
String.

**Create**
The default value is (UTC) Coordinated Universal Time.

**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*.

<table>
<thead>
<tr>
<th>year</th>
</tr>
</thead>
</table>

*year*
The year for the scheduled task.

*Type*
Unsigned integer.

*Create*
The default value is *undefined*.


This structure contains the Grid security settings.

<table>
<thead>
<tr>
<th>admin_access_items</th>
</tr>
</thead>
</table>

*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*

<table>
<thead>
<tr>
<th>audit_log_rolling_enable</th>
</tr>
</thead>
</table>

*audit_log_rolling_enable*
If set to True, rolling of audit logs is enabled.

*Type*
*Bool*.

*Create*
The default value is *True*. 
**http_redirect_enable**

If set to True, HTTP connections are redirected to HTTPS.

*Type*  
Bool.

*Create*  
The default value is *False*.

**lcd_input_enable**

If set to True, the LCD buttons on the front panel of the NIOS appliance can be used for IP address settings of the LAN1 port.

*Type*  
Bool.

*Create*  
The default value is *True*.

**login_banner_enable**

If set to True, the login banner is enabled.

*Type*  
Bool.

*Create*  
The default value is *True*.

**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*. 

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**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**

If set to True, HTTP access restrictions are enabled.

**Type**

Bool.

**Create**

The default value is *False*.

**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**

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**
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*.


This structure contains settings related to the Grid security level banner.

**color**

**color**
The security level color.

**Type**
String.

**Valid values are:**
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**

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*.

---

**4.154 setting:snmp : SNMP setting.**

This structure contains information about the SNMP subsystem.

---

**engine_id**

The engine ID of the appliance that manages the SNMP agent.

**Type**
String array.

**Notes**

- engine_id cannot be updated.
- engine_id cannot be written.

---

**queries_community_string**

The community string for SNMP queries.

**Type**
String.

**Create**
The default value is *empty*.

---

**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

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

If set to True, SNMP traps are enabled.

Type
Bool.

Create
The default value is empty.


This structure contains the syslog proxy settings for the Grid Member.

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
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.

### 4.156 setting:viewaddress : Notify and query source settings.

<table>
<thead>
<tr>
<th><strong>dns_notify_transfer_source</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>dns_notify_transfer_source_address</strong></th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th><strong>dns_query_source_address</strong></th>
</tr>
</thead>
</table>

**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*.

### 4.157 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**

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**

The type of the Smart Folder grouping attribute value.

**Type**
String.

**Valid values are:**
- EXTATTR
- NORMAL

**Create**
The default value is NORMAL.

4.158 smartfolder:groupbyvalue : Smart Folder group by value structure.

This structure is used to query for the Smart Folder children items.

**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

The value of the extensible attribute, object type or object name.

Type
String.

Create
The field is required on creation.

4.159 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:**
- BEGINsWith
- 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.
The Smart Folder query value.

**Type**
A/An *Smart Folder query item value structure* struct.

**Create**
The default value is *undefined*.

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*.

4.160 smartfolder:queryitemvalue : Smart Folder query item value structure.

The Smart Folder query item value contains the value used for query.

The boolean value of the Smart Folder query.

**Type**
Bool.
Create
The default value is undefined.

<table>
<thead>
<tr>
<th>value_date</th>
</tr>
</thead>
<tbody>
<tr>
<td>value_date</td>
</tr>
<tr>
<td>The timestamp value of the Smart Folder query.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Timestamp.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>value_integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>value_integer</td>
</tr>
<tr>
<td>The integer value of the Smart Folder query.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>value_string</th>
</tr>
</thead>
<tbody>
<tr>
<td>value_string</td>
</tr>
<tr>
<td>The string value of the Smart Folder query.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
</tbody>
</table>

4.161 sortlist : DNS Sortlist.

A sortlist defines the order of IP addresses listed in responses sent to DNS queries.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
</tr>
</tbody>
</table>
The source address of a sortlist object.

**Type**
String.

**Create**
The field is required on creation.

**Notes**
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*.

### 4.162 syslogserver : Syslog server.

This structure contains information about a remote syslog server.

### address

**address**
The server address.

**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_UNBOUND
- 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**

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**

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**

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**

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**

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**

The port this server listens on.

**Type**

Unsigned integer.

**Create**

The default value is 514.
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`.

### 4.163 tacacsplus:server: The TACACS+ server structure.

This structure is used for TACACS+ authentication configuration.

**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**
The authentication protocol.

**Type**
String.

**Valid values are:**
• ASCII
• CHAP
• PAP

Create
The default value is CHAP.

<table>
<thead>
<tr>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment</td>
</tr>
<tr>
<td>The TACACS+ descriptive comment.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is undefined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>disable</td>
</tr>
<tr>
<td>Determines whether the TACACS+ server is disabled.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is False.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>port</th>
</tr>
</thead>
<tbody>
<tr>
<td>port</td>
</tr>
<tr>
<td>The TACACS+ server port.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
</tr>
<tr>
<td>The default value is 49.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>shared_secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>shared_secret</td>
</tr>
<tr>
<td>The secret key to connect to the TACACS+ server with.</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>String.</td>
</tr>
</tbody>
</table>
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*.

#### 4.164 taxi: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.
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.

### 4.165 threatprotection:natport : NAT Threat Protection Port.

The structure provides information about the port blocks configured for NAT mapping.

**block_size**

The block size for the NAT Port configuration object.

**Type**

Unsigned integer.

**Create**

The field is required on creation.

**end_port**

The end port value for the NAT port configuration object.

**Type**

Unsigned integer.

**Create**

The field is required on creation.

**start_port**

The start port value for the NAT port configuration object.

**Type**

Unsigned integer.

**Create**
The field is required on creation.


The structure provides information about NAT rules configured for the threat protection NAT mapping feature.

<table>
<thead>
<tr>
<th>address</th>
<th>address</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>The IP address for the threat protection NAT mapping rule.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>You must specify the address when the rule_type is set to ‘ADDRESS’.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>cidr</th>
<th>cidr</th>
</tr>
</thead>
<tbody>
<tr>
<td>cidr</td>
<td>The network CIDR for the threat protection NAT mapping rule.</td>
</tr>
<tr>
<td>Type</td>
<td>Unsigned integer.</td>
</tr>
<tr>
<td>Create</td>
<td>You must specify the cidr when the rule_type is set to ‘NETWORK’.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>end_address</th>
<th>end_address</th>
</tr>
</thead>
<tbody>
<tr>
<td>end_address</td>
<td>The end address for the range of the threat protection NAT mapping rule.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Create</td>
<td>You must specify the end_address when the rule_type is set to ‘RANGE’.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>nat_ports</th>
<th>nat_ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>nat_ports</td>
<td>The NAT port configuration for the threat protection NAT mapping rule.</td>
</tr>
<tr>
<td>Type</td>
<td>A/An <strong>NAT Threat Protection Port</strong> struct array.</td>
</tr>
</tbody>
</table>
Create
The field is required on creation.

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

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

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’.

4.167 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.

The structure provides information about the threat protection rule parameter.

**description**

*description*
The rule parameter description.

*Type*
String.

*Notes*
description cannot be updated.
description cannot be written.

**enum_values**

e*enum_values*
The rule parameter enum values.

*Type*
String array.

*Notes*
enum_values cannot be updated.
enum_values cannot be written.

**max**

*max*
The rule parameter maximum.

*Type*
Unsigned integer.

*Notes*
max cannot be updated.
max cannot be written.

**min**

*min*
The rule parameter minimum.

**Type**
Unsigned integer.

**Notes**
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**
read_only cannot be updated.
read_only cannot be written.

---

**syntax**

`syntax`
The rule parameter syntax.

**Type**
String.

**Notes**
syntax cannot be updated.
syntax cannot be written.
value

The rule parameter value.

Type
String.

Create
The field is required on creation.


The structure provides information about threat protection statistical information configuration.

critical

The number of critical events.

Type
Unsigned long integer.

Create
The default value is undefined.

informational

The number of informational events.

Type
Unsigned long integer.

Create
The default value is undefined.

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**

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*.

**4.170 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
- Disk
- ExtStorage
- FDUsage
- IPAMUtilization
- Memory
- NetworkCapacity
- RPZHitRate
- RecursiveClients
- Reporting
- ReportingVolume
- Rootfs
- SwapUsage
- TcpUdpFloodAlertRate
- TcpUdpFloodDropRate
• ThreatProtectionDroppedTraffic
• ThreatProtectionTotalTraffic

Create
The field is required on creation.

4.171 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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_email</td>
<td>Determines if the email notifications for the given trap are enabled or not.</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is False.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_trap</td>
<td>Determines if the trap is enabled or not.</td>
</tr>
<tr>
<td>Type</td>
<td>Bool.</td>
</tr>
<tr>
<td>Create</td>
<td>The default value is True.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>trap_type</td>
<td>Determines the type of a given trap.</td>
</tr>
<tr>
<td>Type</td>
<td>String.</td>
</tr>
<tr>
<td>Valid values are:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AnalyticsRPZ</td>
</tr>
<tr>
<td></td>
<td>• BFD</td>
</tr>
<tr>
<td></td>
<td>• BGP</td>
</tr>
<tr>
<td></td>
<td>• Backup</td>
</tr>
</tbody>
</table>
• Bloxtools
• CPU
• CaptivePortal
• CiscoISEServer
• Clear
• CloudAPI
• Cluster
• Controld
• DHCP
• DNS
• DNSAttack
• DNSIntegrityCheck
• DNSIntegrityCheckConnection
• Database
• DisconnectedGrid
• Discovery
• DiscoveryConflict
• DiscoveryUnmanaged
• Disk
• DuplicateIP
• ENAT
• FDUsage
• FTP
• Fan
• HA
• HSM
• HTTP
• IFMAP
• 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
• ThreatAnalytics
• ThreatProtection

Create
The field is required on creation.

4.172 trapreceiver : Trap receiver.

This structure contains information about an SNMP trap receiver.

<table>
<thead>
<tr>
<th>address</th>
</tr>
</thead>
</table>

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.

### 4.173 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.
**tsg_key_alg**

The TSIG key algorithm.

**Type**

String.

**Valid values are:**

- HMAC-MD5
- HMAC-SHA256

**Create**

The default value is *HMAC-MD5*.

**tsg_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**

*tsg_key_name* is associated with the field *use_tsg_key_name* (see *use flag*).

**use_tsg_key_name**

*use_tsg_key_name*

Use flag for: *tsg_key_name*

**Type**

Bool.

**Create**

The default value is *False*.

### 4.174 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**
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.

4.175 `upgradegroup:member`: Upgrade group member structure.

This structure represents the upgrade group member settings.
**member**

The upgrade group member name.

**Type**

String.

**Create**

The field is required on creation.

---

**time_zone**

The upgrade group member time zone.

**Type**

String.

**Valid values are:**

- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
- (UTC + 10:00) Guam
- (UTC + 10:00) Hobart
- (UTC + 10:00) Melbourne, Victoria
- (UTC + 10:00) Vladivostok
- (UTC + 11:00) Magadan
- (UTC + 11:00) Solomon Islands
- (UTC + 12:00) Anadyr
- (UTC + 12:00) Auckland
- (UTC + 12:00) Fiji
- (UTC + 12:00) Marshall Islands
- (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
- (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
- (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
- (UTC + 1:00) Sarajevo, Skopje, Sofija, Warsaw, Zagreb
- (UTC + 2:00) Athens, Vilnius
- (UTC + 2:00) Bucharest
- (UTC + 2:00) Cairo
- (UTC + 2:00) Harare
- (UTC + 2:00) Helsinki
• (UTC + 2:00) Jerusalem
• (UTC + 2:00) Kaliningrad
• (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
• (UTC + 3:00) Moscow, St. Petersburg, Volgograd
• (UTC + 3:00) Nairobi
• (UTC + 3:30) Tehran
• (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Notes

time_zone cannot be updated.
time_zone cannot be written.

4.176 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.
<table>
<thead>
<tr>
<th>distribution_time</th>
</tr>
</thead>
</table>
**distribution_time**
The time of the next scheduled distribution.

**Type**
Timestamp.

**Create**
The default value is 0.

<table>
<thead>
<tr>
<th>name</th>
</tr>
</thead>
</table>
**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.

<table>
<thead>
<tr>
<th>time_zone</th>
</tr>
</thead>
</table>
**time_zone**
The time zone for scheduling operations.

**Type**
String.

**Valid values are:**
- (UTC + 10:00) Brisbane
- (UTC + 10:00) Canberra, Sydney
- (UTC + 10:00) Guam
- (UTC + 10:00) Hobart
- (UTC + 10:00) Melbourne, Victoria
- (UTC + 10:00) Vladivostok
- (UTC + 11:00) Magadan
- (UTC + 11:00) Solomon Islands
- (UTC + 12:00) Anadyr
- (UTC + 12:00) Auckland
- (UTC + 12:00) Fiji
- (UTC + 12:00) Marshall Islands
• (UTC + 1:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
• (UTC + 1:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
• (UTC + 1:00) Brussels, Copenhagen, Madrid, Paris
• (UTC + 1:00) Sarajevo, Skopje, Sofija, Warsaw, Zagreb
• (UTC + 2:00) Athens, Vilnius
• (UTC + 2:00) Bucharest
• (UTC + 2:00) Cairo
• (UTC + 2:00) Harare
• (UTC + 2:00) Helsinki
• (UTC + 2:00) Jerusalem
• (UTC + 2:00) Kaliningrad
• (UTC + 3:00) Baghdad, Istanbul, Kuwait, Minsk, Riyadh
• (UTC + 3:00) Moscow, St. Petersburg, Volgograd
• (UTC + 3:00) Nairobi
• (UTC + 3:30) Tehran
• (UTC + 4:00) Baku
• (UTC + 4:00) Dubai
• (UTC + 4:00) Samara
• (UTC + 4:30) Kabul
• (UTC + 5:00) Ekaterinburg
• (UTC + 5:00) Islamabad, Karachi
• (UTC + 5:30) Bombay, Calcutta, Madras, New Delhi
• (UTC + 5:30) Colombo
• (UTC + 6:00) Dhaka
• (UTC + 6:00) Omsk
• (UTC + 6:30) Rangoon
• (UTC + 7:00) Bangkok, Hanoi
• (UTC + 7:00) Krasnoyarsk
• (UTC + 8:00) Beijing, Chongqing, Shanghai
• (UTC + 8:00) Hong Kong
• (UTC + 8:00) Irkutsk
• (UTC + 8:00) Perth
• (UTC + 8:00) Singapore
• (UTC + 8:00) Taipei
• (UTC + 9:00) Osaka, Sapporo, Tokyo
• (UTC + 9:00) Seoul
• (UTC + 9:00) Yakutsk
• (UTC + 9:30) Adelaide
• (UTC + 9:30) Darwin
• (UTC - 10:00) Hawaii
• (UTC - 11:00) Midway Island, Samoa
• (UTC - 12:00)
• (UTC - 1:00) Azores
• (UTC - 2:00) Mid-Atlantic
• (UTC - 3:00) Brasilia
• (UTC - 3:00) Buenos Aires
• (UTC - 3:30) Newfoundland
• (UTC - 4:00) Atlantic Time (Canada)
• (UTC - 4:00) Caracas
• (UTC - 4:00) Santiago
• (UTC - 5:00) Bogota, Lima, Quito
• (UTC - 5:00) Eastern Time (US and Canada)
• (UTC - 5:00) Indiana (East)
• (UTC - 6:00) Central Time (US and Canada)
• (UTC - 6:00) Mexico City, Tegucigalpa
• (UTC - 6:00) Saskatchewan
• (UTC - 7:00) Arizona
• (UTC - 7:00) Mountain Time (US and Canada)
• (UTC - 8:00) Pacific Time (US and Canada), Tijuana
• (UTC - 9:00) Alaska
• (UTC) Casablanca
• (UTC) Coordinated Universal Time
• (UTC) Dublin
• (UTC) Lisbon
• (UTC) London

Notes


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*.

### 4.177  **upgradestep** : Upgrade process step.

The structure provides information about the status of 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
4.178 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.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Create</th>
</tr>
</thead>
<tbody>
<tr>
<td>address</td>
<td>The IP address of the clients which will see the virtual TFTP directory as the root directory.</td>
<td>String</td>
<td>You must specify the address when the ip_type is set to ‘ADDRESS’</td>
</tr>
<tr>
<td>cidr</td>
<td>The CIDR of network the clients from which will see the virtual TFTP directory as the root directory.</td>
<td>Unsigned integer</td>
<td>You must specify the cidr when the ip_type is set to ‘NETWORK’</td>
</tr>
<tr>
<td>end_address</td>
<td>The end IP address of the range within which the clients will see the virtual TFTP directory as the root directory.</td>
<td>String</td>
<td>You must specify the end_address when the ip_type is set to ‘RANGE’</td>
</tr>
</tbody>
</table>
**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**

The Grid member on which to make virtual TFTP directory.

**Type**

String.

**Create**

The field is required on creation.

**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**

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’
4.179 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**

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*.

---

**4.180 zonenameserver : Zone Name Server.**

The Zone Name Server structure provides IP address information for the name server associated with a NS record.

---

**address**

The address of the Zone Name Server.

**Type**
- **String.**

**Create**
The field is required on creation.

---

**auto_create_ptr**

Flag to indicate if ptr records need to be auto created.

**Type**
- **Bool.**

**Create**
The default value is *True*. 
4.181  zonerolloverinfo : The zone rollover information structure.

This structure is used for displaying zone rollover information.

<table>
<thead>
<tr>
<th>days</th>
</tr>
</thead>
</table>

The number of days that are left before the rollover period expires. The negative values is assigned, if the period has expired.

**Type**
Integer.

**Create**
The default value is *undefined*.

<table>
<thead>
<tr>
<th>display_domain</th>
</tr>
</thead>
</table>

The domain name of the signed zone.

**Type**
String.

**Create**
The default value is *undefined*.

<table>
<thead>
<tr>
<th>view</th>
</tr>
</thead>
</table>

The name of the view to which the zone belongs.

**Type**
String.

**Create**
The default value is *undefined*.

<table>
<thead>
<tr>
<th>zone</th>
</tr>
</thead>
</table>

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*. 
5.1 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/v2.7/network \
     -d network=10.1.0.0/16
```

The server returns a reference of the created network:

```
"network/ZG5zLm5ldHdvcmxkMTAuYzIwMTk2MDM3Mzc5NTM2NzAzMDIzMTUzMDY1OTYyMzI4OTk6"
```

To create another network, send another POST request:

```
curl -k1 -u admin:testpw -X POST https://192.168.1.2/wapi/v2.7/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/v2.7/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 \n  https://192.168.1.2/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA: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/v2.7/network \n  -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/v2.7/network \   -d comment~:=sample
```

The server returns the network we just modified:

```
[   
    {   
        "_ref": "network/ZG5zLm5ldHdvcmskMTAueMS4wLjAvMTYvMA: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/v2.7/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/v2.7/network/ZG5zLm5ldHdvcmskMTAueMS4wLjAvMTYvMA:10.1.0.0%2F16
```

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

```
"network/ZG5zLm5ldHdvcmskMTAueMS4wLjAvMTYvMA: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/v2.7/network/ZG5zLm5ldHdvcmskMTAueMi4wLjAvMTYvMA: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/v2.7/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/v2.7/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/v2.7/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/v2.7/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/v2.7/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/default"

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/v2.7/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/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/v2.7/fileop?_function=uploadinit'

The appliance will return the URL and a token value:

```
{
    "token": "eJydkMFOzwAMhu9+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/v2.7/fileop?_function=setfiledest' \\ -H "Content-Type: application/json" \\ -d '{ "dest_path": "/somefile.txt", "type": "TFTP_FILE", \\
"token": "eJydkMFOzwAMhu9+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/v2.7/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/v2.7/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/v2.7/zone_auth \
-d fqdn=test1.com
curl -k1 -u admin:testpw -X POST https://127.0.0.1/wapi/v2.7/network \
-d network=10.1.0.0/16
curl -k1 -u admin:testpw -X POST https://127.0.0.1/wapi/v2.7/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/v2.7/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/v2.7/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/v2.7/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/v2.7/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 \n'https://127.0.0.1/wapi/v2.7/record:a?name~=test1.com&_return_fields=name'
[
  
  "_ref": "record:a/ZG5zLmJpbmRfYSQuXY29tLn3DEwLjEuMC4x:a1.test1.com/default", 
  "name": "a1.test1.com"
  
  
  "_ref": "record:a/ZG5zLmJpbmRlNc3QxLGE1LDEwLjEuMC41:a5.test1.com/default", 
  "name": "a5.test1.com"
  
  
  "_ref": "record:a/ZG5zLmJpbmRfYSQc3QxLGE0LDEwLjEuMC40:a4.test1.com/default", 
  "name": "a4.test1.com"
  
  
  "_ref": "record:a/ZG5zLmY29tLnRlC3QxLGEzLDEwLjEuMC4z:a3.test1.com/default", 
  "name": "a3.test1.com"
  
  
  "_ref": "record:a/ZG5zLmJpbmRfYSQuX2RLGyLDEwLjEuMC4y:a2.test1.com/default", 
  "name": "a2.test1.com"
]

Now request two records at a time:

curl -k1 -u admin:testpw -X GET \n'https://127.0.0.1/wapi/v2.7/record:a?
name~=test1.com&_return_fields=name&_paging=1&_max_results=2&_return_as_object=1'
{

  "next_page_id": "789c5590...4efc1732", 
  "result": [
    
    "_ref": "record:a/ZG5zLmJpbmRfYSQuXY29tLn3DEwLjEuMC4x:a1.test1.com/default", 
    "name": "a1.test1.com"
    
    
    "_ref": "record:a/ZG5zLmJpbmRlNc3QxLGE1LDEwLjEuMC41:a5.test1.com/default", 
    "name": "a5.test1.com"
    
    
    "_ref": "record:a/ZG5zLmJpbmRfYSQc3QxLGE0LDEwLjEuMC40:a4.test1.com/default", 
    "name": "a4.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/v2.7/record:a?_page_id=789c5590...4efc1732' \\
{
    "next_page_id": "789c5590...3e113c3d4d",
    "result": [
        {
            "_ref": "record:a/ZG5zLmJpbmRfYSQc3QxLGEOLE1wLjEuMC40:a4.test1.com/default",
            "name": "a4.test1.com"
        },
        {
            "_ref": "record:a/ZG5zLmuY29tLnRlc3QxLGExLDEwLjEuMC4z:a3.test1.com/default",
            "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/v2.7/record:a?_page_id=789c5590...3e113c3d4d' \\
{
    "result": [
        {
            "_ref": "record:a/ZG5zLmJpbmRfYSQx2RLGeLEwLjEuMC4y:a2.test1.com/default",
            "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/v2.7/network?_return_type=xml-pretty
```

The server returns a reference of the created network:

```xml
<?xml version="1.0"?>
<value>network/ZG5zLmJpbmRfYSQx2RLGeLEwLjEuMC4y:a2.test1.com/default</value>
```

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/v2.7/network?_return_type=xml-pretty
```
Read a network

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

curl -k -u admin:testpw -X GET \\https://192.168.1.2/wapi/v2.7/network?_return_type=xml-pretty

The server returns a list with both networks:

```xml
<?xml version="1.0"?>
<list>
  <value type="object">
    <network_view>default</network_view>
    <_ref>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16</_ref>
    <network>10.1.0.0/16</network>
  </value>
  <value type="object">
    <network_view>default</network_view>
    <_ref>network/ZG5zLm5ldHduMi4wLjAvMTYvMA:10.2.0.0%2F16</_ref>
    <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 -k -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/v2.7/network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.1.0.0%2F16?\ _return_type=xml-pretty

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

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

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 -k -u admin:testpw -X GET -HAccept:text/xml \ https://192.168.1.2/wapi/v2.7/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
<?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</_ref>
    <network>10.1.0.0/16</network>
  </value>
  <value type="object">
    <network_view>default</network_view>
    <_ref>network/ZG5zLm5ldHdvMS4wLjAvMTYvMA:10.2.0.0%2F16</_ref>
    <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/v2.7/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/ZG5zLm5ldHduM14wLjAvMTYvMA:10.1.0.0%2F16</ref>
    <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/v2.7/network -d comment~:=nomatch \
    -d _return_type=xml-pretty
```

The server returns the following:

```
<?xml version="1.0"?>
<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/v2.7/network/ZG5zLm5ldHdvcmkMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16 \
    -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/ZG5zLm5ldHdvcmkMTAuMS4wLjAvMTYvMA:10.1.0.0%2F16</value>
```

To delete the other network, send the following:

```
curl -k1 -u admin:testpw -X DELETE -HAccept:text/xml \
    https://192.168.1.2/wapi/v2.7/network/ZG5zLm5ldHdvcmkMTAuMS4wLjAvMTYvMA:10.2.0.0%2F16 \
    -d _return_type=xml-pretty
```

Note that both networks have been removed:

The server returns the following:

```xml
<?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:

```bash
curl -k1 -u admin:testpw -H "Content-Type: application/xml" -X POST \\https://192.168.1.2/wapi/v2.7/zone_auth -d '\'"<?xml version="1.0"))?><value type="object"><fqdn>zone.com</fqdn></value>"'"
```

Then send the following request to create the host:

```bash
curl -k1 -u admin:testpw -H "Content-Type: application/xml" -X POST \\https://192.168.1.2/wapi/v2.7/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:

```bash
curl -k1 -u admin:testpw -X POST -H "Content-Type: text/xml" --data-binary \\'"<value type="object"><network>10.1.0.0/16</network></value>"' \\https://192.168.1.2/wapi/v2.7/network?_return_type=xml-pretty&_schedinfo.scheduled_time=1367752903"
```

The server returns a reference of the created scheduled task:

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

**Execute a function call.**

To execute a function call, use a POST request with the _function parameter. For example, first create a network:

```bash
curl -k1 -u admin:testpw -X POST -H "Content-Type: text/xml" --data-binary \\'"<value type="object"><network>10.2.0.0/16</network></value>"' \\https://192.168.1.2/wapi/v2.7/network?_return_type=xml-pretty
```

the server will then return a reference to the network that was just created:

```xml
<?xml version="1.0"?><value>network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default</value>
```

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 \
'\t<value type="object"><exclude><list><value>10.1.1.0/24</value>\t\t<value>10.1.3.0/24</value></list></exclude><cidr type="int">24</cidr>\t\t<num type="int">3</num></value>' \
'https://192.168.1.2/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA: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
<?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:

```bash
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/v2.7/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 -k -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/v2.7/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/v2.7/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/v2.7/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/b25lLmFkbWluJGVtcGxveWV1QGluZm9ibG94LmNvbQ:employee@infoblox.com"

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/v2.7/certificate:authservice -d \ '{
  "name": "cert-login",
  "enable_password_request": "false",
  "match_type": "AUTO_MATCH",
  "auto_populate_login": "true",
  "authservice": "infoblox"
}'
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, as follows:

curl -k -u admin:infoblox -X GET \ https://127.0.0.1/wapi/v2.7/authpolicy?_return_fields=auth_services

The server will return an authpolicy object:

```
[  
   {  
      "_ref": "authpolicy/b251LnJlbW90ZV9hZGlpb19wb2xpY3kkMA:authpolicy",
      "auth_services": [  
         "localuser:authservice/Li5sb2Nhbf91c2VvX2F1dGhfc2VydmljZSqw:Local%20Admin"
      ]
   }  
]
```

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 -k -u admin:infoblox -H "Content-Type: application/json" -X PUT \ https://127.0.0.1/wapi/v2.7/authpolicy/b251LnJlbW90ZV9hZGlpb19wb2xpY3kkMA:authpolicy -d \ '{  
   "auth_services": [  
      "certificate:authservice/b251Lm9jc3BfYXV0aF9zZXJ2aWNlJGN1cnQtbg9naW4:cert-login",
      "localuser:authservice/Li5sb2Nhbf91c2VvX2F1dGhfc2VydmljZSqw:Local%20Admin"
   ]
}

The server will return reference to the authpolicy object if the operation succeeds:

"authpolicy/b251LnJlbW90ZV9hZGlpb19wb2xpY3kkMA: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/v2.7/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:@STRENGTH
* successfully set certificate verify locations:
  * CAfile: /etc/pki/tls/certs/ca-bundle.crt
  * CPath: 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/v2.7/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,auth=LOCAL,user=employee@infoblox.com";
< Transfer-Encoding: chunked
<
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.

### 5.2 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/v2.7/request

With a body:

```json
{
   "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/v2.7/request

With a body:

```json
[{
   "method": "STATE:ASSIGN",
   "data": {
      "host_name": "test.somewhere.com"
   }
},
]"
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/v2.7/request

With a body:

```json
[{
    "method": "GET",
    "object": "network",
    "data": {
        "network": "10.1.0.0/16"
    },
    "args": {
        "_return_fields": "extattrs"
    }
}]
```

Returns with a body:

```json
{
    "host_name": "test.somewhere.com",
    "host_ref": "record:host/ZG5...zdA:test.somewhere.com/default",
    "updated_comment": "new comment"
}
```
5.3 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.

5.4 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": {
    "EName": {
        "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.
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.

### 5.5 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/v2.7/network?*Building:='Data Center'
```

### 5.6 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"}
}
```
5.7 Glossary

**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.

5.8 Object restrictions

**CSV export**

The following objects support CSV import/export:
The following objects support global search:

**Global search**


**Scheduling**

The following objects support scheduling:

smartfolder:personal, threatanalytics:moduleset, threatanalytics:whitelist, threatinsight:cloudclient, upgradegroup, upgradeschedule, vdiscoverytask, view, zone_auth, zone_delegated, zone_forward, zone_rp, zone_stub
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