Infoblox

Deployment Guide

# Infoblox REST API

NIOS 8.6

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# Introduction

The Infoblox WAPI is an interface based on REST (REpresentational State Transfer), also called a RESTful web API. These are not dependent on any programming language.

It uses HTTP methods for operations and supports input and output in JSON and XML. It supports the primary or most-commonly-used HTTP verbs: POST, GET, PUT, and DELETE. These correspond to create, read, update, and delete (or CRUD) operations, respectively.

All API calls are encrypted using SSL/TLS and authenticated using HTTP basic authentication.

## General Syntax and Options

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

**URL**

The first part of the URL consists of the host IP address (or FQDN) to which all the calls will be directed. The second part of the URL identifies the requests as a WAPI request and specifies the expected version of WAPI.

The URL syntax is <*grid_IP*>*wapi/v*<*major.minor*>, e.g. x.x.x.x/wapi/v2.4/.
If you need to use a patch release, you can specify it as vx.x.x (like v2.6.1).
The current version of the API is **2.12**.

The Infoblox WAPI has a versioning scheme that is independent of the NIOS versioning scheme. A current WAPI version is backward compatible with WAPI releases that have the same major WAPI version or with designated earlier major versions.

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

**Arguments**

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 *_schema, _return_type, _return_fields* and *_method*.

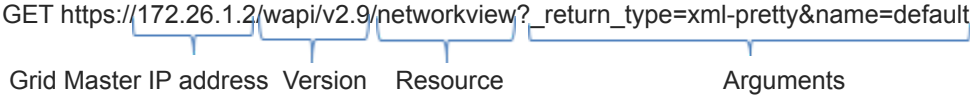
With version 2.11, *_inheritance* is introduced. If this option is set to True, fields which support inheritance, will display data properly.

**Data (Body)**

Contains data that is dependent on the method. Only, PUT, and POST methods can have a Body on input. All methods have Body on output.

**Example**

GET https://172.26.1.2/wapi/v2.9/networkview?_return_type=xml-pretty&name=default



## Object Reference

Every WAPI Object is referenced by a unique Object Reference. 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* }... ] ]

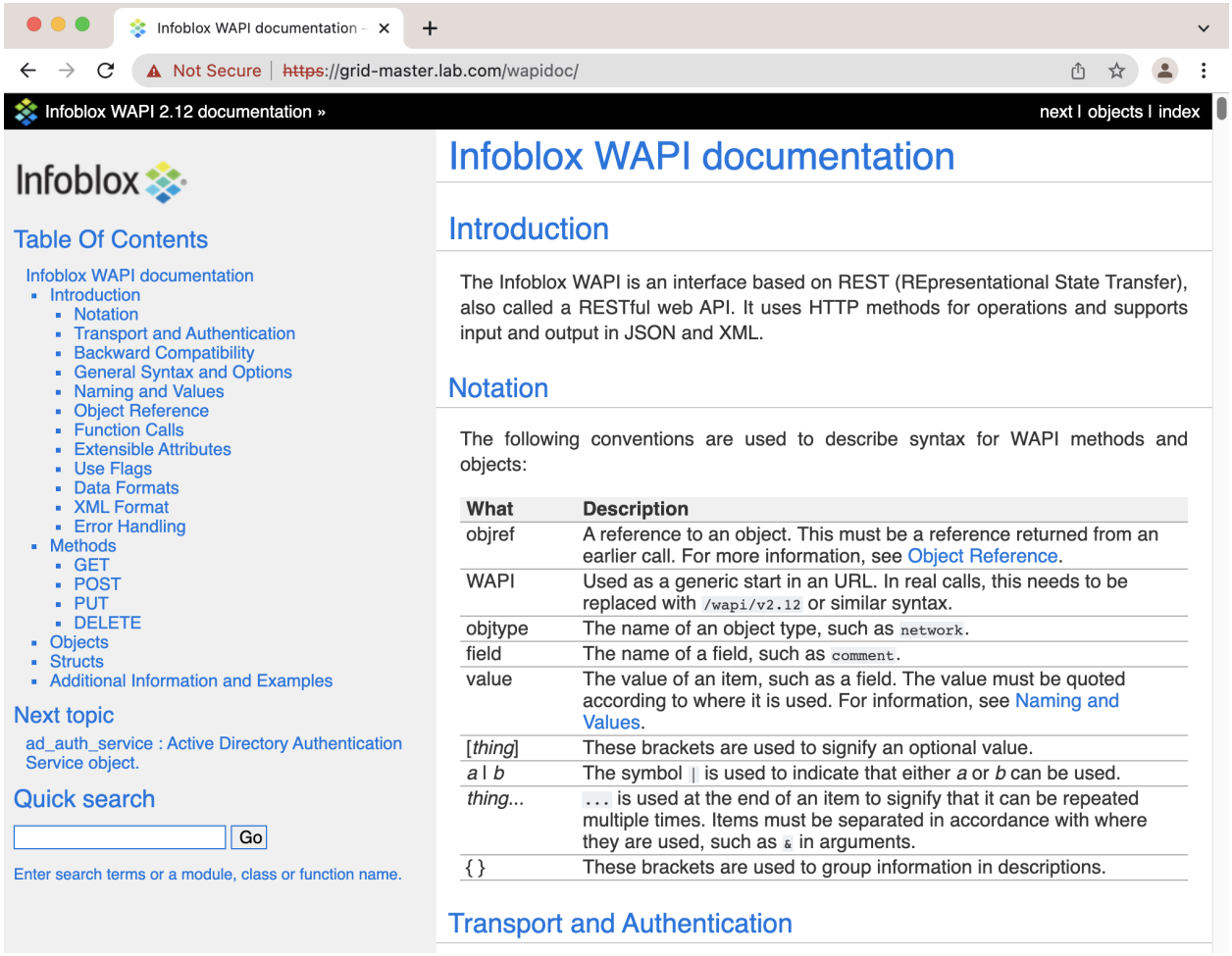
**Example**

networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default

wapitype refdata name

## Documentation

For more information, you can navigate to the WAPI documentation available at https://<grid_IP>/wapidoc



You can also find more information in the Support Site under NIOS in the Tech Docs section.

| NIOS | Online | PDF<br>**Note:** If your browser does not properly render the PDF, refresh the browser. |
|---|---|---|
| **NIOS 8.6 Documentation** | | |
| NIOS 8.6 Documentation (includes Administrator, CLI, and CSV Reference guides) | HTML | PDF |
| WAPI Documentation (RESTful API) | Online version is available through Grid Manager | PDF |
| NetMRI 7.4.5 NIOS 8.5.2 Device Support List | HTML | PDF |
| **NIOS 8.5 Documentation** | | |
| NIOS 8.5 Documentation (includes Administrator, CLI, and CSV Reference guides) | HTML | PDF |
| WAPI Documentation (RESTful API) | Online version is available through Grid Manager | PDF |

## Common scenarios

This section will cover the most common scenarios that you may encounter in your day-to-day activities while working with the Infoblox grid.

***Please note that this document will cover the most common use cases. It will not cover all the APIs available. For any additional information, please refer to the official WAPI documentation.***

### Points to remember

- For each of the use cases, this document will cover the API call and corresponding cURL commands, alongwith a sample output.
- The cURL commands used here can be used on Linux-based systems. For Windows-based systems, the syntax may vary.
- The Sample Codes section contains sample Python, Powershell, Java and C# code.
- In the following WAPI Samples, the guide uses a base url referenced as <wapi_url>. Replace it with https://<grid_master_ip>/wapi/<wapi_version> or https://<grid_master_fqdn>/wapi/<wapi_version>. Example: https://x.x.x.x/wapi/v2.12 or https://this.is.a.test.com/wapi/2.12
  To get the latest version of WAPI supported by the Grid in your environment, refer to the Schema section. This is also available as part of the documentation.

- In the sample cURL commands, replace the text in red with values specific to your environment.
- By default, all the fields are not returned during a GET request. You can use the *_return_fields* argument to get the desired data. You would have to explicitly mention the additional fields you require with a *_return_fields+=<requiredfield>*
- You can set *_return_as_object* argument to 1. This will change the format of the JSON output to make it easy to parse by 3rd party libraries. It is recommended to set this as it standardizes the JSON format and is less error prone.
- Set the *_max_results* option to 1 when you need to stop a search on the first match. This results in a huge performance and speed improvement in large environments.
- When a search result yields a large number of results, you can use paging.
    - 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 returned results object will contain 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 the subsequent results, you can re-send GET requests to the original object and set *_page_id* to the ID string returned in the previous page of results.
    - For a sample request, refer to Sample paging request
- When making POST, or PUT requests, it is easier to send the data as 'application/json' in the body of the message, since it lets you send complex data structures in the payload.
- Field and argument values must be quoted according to where they are used.
  Examples:
    - URL args, x-www-form-urlencoded:
      Use %xx encoding for “%”, ”;”, “/”, ”?”, ”:”, “@”, “&”, “=”, “+”, “$”, ”,” and ” ” (a space)
    - JSON Data:
      Use JSON quoting, as specified at http://json.org
    - XML Data:
      Use XML quoting (& etc.) as needed for XML.
- In the following examples, ‘+’ is encoded as %2B, ‘:’ as %3A, ‘<’ as 3C, ‘>’ as 3E
- The following examples include a sample output for each API call. This data is only representative of the test environment. “….” indicates that there are more records returned than mentioned.
- By default, the output of POST, PUT, and DELETE contains the *_ref* of the concerned object.
- PUT and DELETE operations require *_ref* of the object you are working with.
    - In the following WAPI Samples, the text highlighted in green indicates an object reference specific to the test environment. Please replace it with the object reference specific to your environment. Example: In
      {wapi_url}/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default
      replace with {wapi_url}/<_ref>
    - You can get the *_ref* by performing a GET operation.
- If a field is of type BOOLEAN, do not quote the word. Example: "is_default":true
- 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. With WAPI 2.12, you can get the inherited data by setting the *_inheritance* argument to *true*.
- While searching for network objects, you can filter the data using regular expressions. You would need to specify the ~ modifier to indicate you are querying with a regular expression.

- A search argument can use the following modifiers

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

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

- When you need to update or create multiple records, you can store the data as fields in a CSV file and import it at once. This will be faster in comparison with updating or creating each object with a separate API call. The Import a CSV file section covers an example.
- The *request* object allows the control of WAPI through a single-entry point. The Multiple Object Feature enables making multiple requests with one API call, thus simplifying an operation, and reducing the number of API calls to be made. You can find a few samples in the Multiple Object Body Feature using /request section.

## Access

WAPI uses HTTPS (HTTP over SSL/TLS) as the transport mechanism. You can access WAPIs using various methods.

1. Applications that allow you to make REST calls, like Insomnia and POSTMAN
2. Any programming language or utility, like curl and python (by importing the requests module)
3. Any third-party application that you want to integrate with, that supports REST methods, like ServiceNow and HP Operations Orchestrator.

## Authentication

The server certificate used for WAPI is the same certificate used by NIOS for the GUI.

WAPI supports only HTTP Basic Authentication. You can use the connection for issuing multiple requests. In the case of multiple requests, authentication is handled by supplying the cookie (ibapauth) that was returned after the initial authentication. The IBAPAUTH cookie is sent back by the server to avoid repeat authentication requests. It is sent as an HTTPONLY, SECURE cookie.
Example: set-cookie:
ibapauth="ip=127.0.0.1,client=API,group=admin-group,ctime=1446631868,timeout=600,mtime=1446631868,su=1,auth=LOCAL,user=admin,NlxMltsoxDNvBWKrfOMy+uxUMWS3guCB4yU"
This cookie can be invalidated by sending a POST request to /wapi/v2.12/logout

WAPI supports the same underlying authentication methods that NIOS supports for username and password. This also applies to the cookie timeout which is the same value as the Grid UI timeout. All WAPI users must have permissions that grant them access to the API.

You can login with any API call. This will set the cookie.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="3">A sample API call (Get host records) to save the cookie generated to a file called cookies.txt</td><td colspan="3">curl -k -u admin:infoblox -c cookies.txt -X GET "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",<br>"ipv4addrs":<br>[{ "_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjAwLg:172.26.1.200/host1.test.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.test.com",<br>"ipv4addr": "172.26.1.200"<br>}],<br>"name": "host1.test.com",<br>"view": "default"<br>},<br>….<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI:printer.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucHJpbnRlci4xNjAuMjAuMS4xMDAu:160.20.1.100/printer.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "printer.info.com",<br>"ipv4addr": "160.20.1.100"<br>}],<br>"name": "printer.info.com",<br>"view": "default"<br>}]}</td></tr>
<tr><td colspan="3">curl -k -b cookies.txt -X GET "https://grid-master/wapi/v2.12/zone_auth?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default",<br>"fqdn": "test.com",<br>"view": "default"<br>}]}</td></tr>
<tr><td rowspan="3">Modify the session timeout</td><td>PUT</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox</td><td>{"security_setting":<br>{"session_timeout": 60000}}</td></tr>
<tr><td colspan="3">curl -k -b cookies.txt -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_as_object=1&_return_fields%2B=security_setting" -d '{"security_setting":{"session_timeout": 60000}}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox",<br>"security_setting":<br>{ "admin_access_items": [],<br>"audit_log_rolling_enable": true,<br>"http_redirect_enable": false,</td></tr>
</table>

| | |
|---|---|
| | "lcd_input_enable": true,<br>"login_banner_enable": true,<br>"login_banner_text": "Disconnect NOW if you have not been expressly authorized to use this system.",<br>"remote_console_access_enable": false,<br>"security_access_enable": false,<br>"security_access_remote_console_enable": true,<br>"session_timeout": 600000,<br>"ssh_perm_enable": true,<br>"support_access_enable": false,<br>"support_access_info": "Not enabled"<br>}}} |
| Invalidate a cookie | POST <wapi_url>/logout |
| | curl -k -b cookies.txt -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/logout" |

## Schema

The *_schema* argument returns the WAPI schema.
If a WAPI schema is requested without specifying the type of network object, an object with information about requested version of the WAPI schema, list of supported objects in the requested version, and list of all supported versions will be returned.
If you specify a network object while requesting WAPI schema, along with the above-mentioned information, you will get a list of cloud restrictions, list of fields of the object, list of object restrictions, requested object type, and actual requested version of the WAPI object schema.

| **Operation** | **REST Method** | **API Call** |
|---|---|---|
| | **Sample cURL Command** | |
| | **Sample Output** | |
| Get the overall WAPI Schema (supported versions and supported objects) | GET | <wapi_url>/?_schema |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/?_schema&_return_as_object=1" | |
| | {"result":<br>{"requested_version": "2.12",<br>"supported_objects":<br>["ad_auth_service",<br>"admingroup",<br>"adminrole",<br>…..<br>"zone_delegated",<br>"zone_forward",<br>"zone_rp",<br>"zone_stub"<br>],<br>"supported_versions":<br>["1.0","1.1","1.2","1.2.1", "1.3","1.4","1.4.1",<br>…….<br>"2.6","2.6.1","2.7", "2.7.1","2.7.2","2.7.3","2.8","2.9","2.9.1","2.9.5"<br>]}} | |
| Get schema of an object (*record:host* can be replaced with any other object) | GET | <wapi_url>/record:host?_schema |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_schema&_return_as_object=1" | |

| | |
|---|---|
| | {"result":<br>{"cloud_additional_restrictions":<br>["function call"],<br>"fields":<br>[{"is_array": true,<br>"name": "aliases",<br>"standard_field": false,<br>"supports": "rwu",<br>"type": ["string"]<br>},<br>{"is_array": false,<br>"name": "allow_telnet",<br>"standard_field": false,<br>"supports": "rwu",<br>"type": ["bool"]<br>},<br>……<br>{"is_array": false,<br>"name": "zone",<br>"searchable_by": "=",<br>"standard_field": false,<br>"supports": "rs",<br>"type": ["string"]<br>}],<br>"restrictions": [],<br>"type": "record:host",<br>"version": "2.12"<br>}} |

## Extensible Attributes

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get the definition of the Extensible Attributes | GET | <wapi_url>/extensibleattributedef | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/extensibleattributedef?_return_as_object=1" | | |
| | {"result":<br>[{ "_ref":<br>"extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLkJ1aWxkaW5n:Building",<br>"default_value": null,<br>"name": "Building",<br>"type": "STRING"<br>},<br>……<br>{"_ref":<br>"extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLlJlcG9ydGluZ1NpdGU:ReportingSite",<br>"default_value": "site1",<br>"name": "ReportingSite",<br>"type": "ENUM"<br>}]} | | |
| Create “Owner” Extensible Attribute of type String | POST | <wapi_url>/extensibleattributedef | {"name": "Owner",<br>"type": "STRING"} |

<table>
<tr><td></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/extensibleattributedef?_return_fields%2B=name,type&_return_as_object=1" -d '{"name": "Owner","type": "STRING"}'</td></tr>
<tr><td></td><td colspan="3">{"result":<br>{"_ref":<br>"extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLk93bmVy:Owner",<br>"default_value": null,<br>"name": "Owner",<br>"type": "STRING"<br>}}</td></tr>
<tr><td rowspan="3">Create a “Location” Extensible Attribute of type list with possible values Santa Clara, Tacoma, Bangalore, Mumbai</td><td>POST</td><td><wapi_url>/extensibleattributedef</td><td>{"name": "Location",<br>"type": "ENUM",<br>"list_values": [{"value": "Santa Clara"},<br>{"value": "Tacoma"},<br>{"value": "Bangalore"},<br>{"value": "Mumbai"}]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/extensibleattributedef?_return_fields%2B=name,type&_return_as_object=1" -d '{"name": "Location","type": "ENUM","list_values": [{"value": "Santa Clara"},{"value": "Tacoma"},{"value": "Bangalore"},{"value": "Mumbai"}]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLkxvY2F0aW9u:Location",<br>"default_value": null,<br>"name": "Location",<br>"type": "ENUM"<br>}}</td></tr>
</table>

## Extensible Attributes Inheritance

If inheritance is enabled for an extensible attribute, the following fields are supported in the extensible attribute value object:

| Field | Description/Supported Values | |
|---|---|---|
| value | Value of the EA | |
| inheritance_source | This is a read-only field. It is a reference to the object this EA is inheriting from. | |
| inheritance_operation | INHERIT \| DELETE \| OVERRIDE | |
| descendants_action | option_delete_ea | REMOVE \| RETAIN |
| | option_with_ea | CONVERT \| INHERIT \| RETAIN |
| | option_without_ea | INHERIT \| NOT_INHERIT |

Please note that 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*).

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add an extensible attribute with inheritance | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default | {"extattrs": {"Location": {"descendants_action": {"option_with_ea": "RETAIN", "option_without_ea": "NOT_INHERIT"}, "value": "Santa Clara"}}} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_fields%2B=extattrs&_return_as_object=1" -d '{"extattrs":{"Location": {"descendants_action": {"option_with_ea": "RETAIN","option_without_ea":"NOT_INHERIT"},"value": "Santa Clara"}}}' | | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "extattrs": {"Location": {"value": "Santa Clara"} }, "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjAwLg:172.26.1.200/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.200" }], "name": "host1.test.com", "view": "default" }} | | |

## DNS-related scenarios

### Zones

| Zone type | Operation | REST Method | API Call | Sample Body (for POST and PUT) |
|---|---|---|---|---|
| | | Sample cURL Command | | |
| | | Sample Output | | |
| Authoritative Zone | Fetch information | GET | <wapi_url>/zone_auth | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_auth?_return_as_object=1" | | |
| | | {"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default", "fqdn": "test.com", "view": "default" }]} | | |
| | Create | POST | <wapi_url>/zone_auth | {"fqdn": "info.com"} |

<table>
<tr><td rowspan="11"></td><td rowspan="2"></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_auth?_return_fields%2B=fqdn&_return_as_object=1" -d '{"fqdn": "info.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",<br>"fqdn": "info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Create IPV4 reverse mapping zone</td><td>POST</td><td><wapi_url>/zone_auth</td><td>{"fqdn": "10.10.10.in-addr.arpa ", "zone_format":"IPV4"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_auth?_return_fields%2B=fqdn&_return_as_object=1" -d '{"fqdn": "10.10.10.in-addr.arpa","zone_format":"IPV4"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMC4xMC4xMA:10.10.10.0%2F24/default",<br>"fqdn": "10.10.10.0/24",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default</td><td>{"grid_primary":[{"name":"infoblox.localdomain"}]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default?_return_fields%2B=fqdn,grid_primary&_return_as_object=1" -d '{"grid_primary":[{"name":"infoblox.localdomain"}]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",<br>"fqdn": "info.com",<br>"grid_primary":<br>[{"name": "infoblox.localdomain",<br>"stealth": false<br>}],<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Delete</td><td>DELETE</td><td><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default&?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default"}</td></tr>
<tr><td rowspan="3">Forward Zone</td><td rowspan="3">Fetch information</td><td>GET</td><td><wapi_url>/zone_forward</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_forward?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5mb3J3YXJkdGVzdA:forwardtest.com/default",<br>"forward_to":<br>[{"address": "172.26.1.10",<br>"name": "host.forwardtest.com"<br>}],</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| | | "fqdn": "forwardtest.com",<br>"view": "default"<br>}]} | | |
| | Create | POST | <wapi_url>/zone_forward | {"fqdn":"infoblox.com",<br>"forward_to":[{"address":"10.10.10.11",<br>"name":"host.infoblox.com"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_forward?_return_as_object=1" -d '{"fqdn":"infoblox.com","forward_to":[{"address":"10.10.10.11","name":"host.infoblox.com"}]}' | | |
| | | {"result":<br>{"_ref":<br>"zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",<br>"forward_to":<br>[{"address": "10.10.10.11",<br>"name": "host.infoblox.com"<br>}],<br>"fqdn": "infoblox.com",<br>"view": "default"<br>}} | | |
| | Modify | PUT | <wapi_url>/zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default | {"forwarding_servers":<br>[{"name":"infoblox.localdomain"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default?_return_fields%2B=forwarding_servers&_return_as_object=1" -d '{"forwarding_servers": [{"name":"infoblox.localdomain"}]}' | | |
| | | {"result":<br>{"_ref":<br>"zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",<br>"forward_to":<br>[{"address": "10.10.10.11",<br>"name": "host.infoblox.com"<br>}],<br>"forwarding_servers":<br>[{"forward_to": [],<br>"forwarders_only": false,<br>"name": "infoblox.localdomain",<br>"use_override_forwarders": false<br>}],<br>"fqdn": "infoblox.com",<br>"view": "default"<br>}} | | |
| | Delete | DELETE | <wapi_url>/zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default | |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default?_return_as_object=1" | | |
| | | {"result":<br>"zone_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default"} | | |

<table>
<tr><td rowspan="10">Zone Delegation</td><td rowspan="2">Fetch information</td><td>GET</td><td><wapi_url>/zone_delegated</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET<br>"https://grid-master/wapi/v2.12/zone_delegated?_return_as_object=1"</td></tr>
<tr><td colspan="4">{"result":<br>[{"_ref":<br>"zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",<br>"delegate_to":<br>[{"address": "172.26.1.100",<br>"name": "host.test.info.com"<br>}],<br>"fqdn": "test.info.com",<br>"view": "default"<br>}]}</td></tr>
<tr><td rowspan="3">Create</td><td>POST</td><td><wapi_url>/zone_delegated</td><td>{"fqdn":"demo.info.com",<br>"delegate_to":[{"address":"10.10.10.20",<br>"name":"host.demo.info.com"}]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/zone_delegated?_return_fields%2B=fqdn,delegate_to&_return_as_object=1" -d<br>'{"fqdn":"demo.info.com","delegate_to":[{"address":"10.10.10.20","name":"host.demo.info.com"}]}'</td></tr>
<tr><td colspan="4">{"result":<br>{"_ref":<br>"zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default",<br>"delegate_to":<br>[{"address": "10.10.10.20",<br>"name": "host.demo.info.com"<br>}],<br>"fqdn": "demo.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default</td><td>{"locked":true}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT<br>"https://grid-master/wapi/v2.12/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default?_return_fields=locked&_return_as_object=1" -d<br>'{"locked":true}'</td></tr>
<tr><td colspan="4">{"result":<br>{"_ref":<br>"zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default",<br>"locked": true<br>}}</td></tr>
<tr><td rowspan="2">Delete</td><td>DELETE</td><td><wapi_url>/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE<br>"https://grid-master/wapi/v2.12/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default?_return_as_object=1"</td></tr>
</table>

| | | |
|---|---|---|
| | | {"result": "zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default"} |

### The most common record types

| Record type | Operation | REST Method | API Call | Sample Body (for POST and PUT) |
|---|---|---|---|---|
| | | Sample cURL Command | | |
| | | Sample Output | | |
| HOST | Fetch information | GET | <wapi_url>/record:host | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_return_as_object=1" | | |
| | | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{ "_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjAwLg:172.26.1.200/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.200" }], "name": "host1.test.com", "view": "default" }, …. {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI:printer.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucHJpbnRlci4xNjAuMjAuMS4xMDAu:160.20.1.100/printer.info.com/default", "configure_for_dhcp": false, "host": "printer.info.com", "ipv4addr": "160.20.1.100" }], "name": "printer.info.com", "view": "default" }]} | | |
| | Create | POST | <wapi_url>/record:host | {"name":"host.info.com", "ipv4addrs": [{"ipv4addr":"10.10.10.20"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '{"name":"host.info.com","ipv4addrs": [{"ipv4addr":"10.10.10.20"}]}' | | |
| | | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9z | | |

| | | | | |
|---|---|---|---|---|
| | | dC4xMC4xMC4xMC4yMC4:10.10.10.20/host.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "host.info.com",<br>"ipv4addr": "10.10.10.20"<br>}],<br>"name": "host.info.com",<br>"view": "default"<br>}} | | |
| | Modify | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default | {"name":"host1.info.com"} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default?_return_fields%2B=name&_return_as_object=1" -d '{"name":"host1.info.com"}' | | |
| | | {"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdDEuMTAuMTAuMTAuMjAu:10.10.10.20/host1.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.info.com",<br>"ipv4addr": "10.10.10.20"<br>}],<br>"name": "host1.info.com",<br>"view": "default"<br>}} | | |
| | Delete | DELETE | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default | |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default?_return_as_object=1" | | |
| | | {"result":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default"} | | |
| A | Fetch information | GET | <wapi_url>/record:a | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:a?_return_as_object=1" | | |
| | | {"result":<br>[{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",<br>"ipv4addr": "172.26.1.100",<br>"name": "host.test.info.com",<br>"view": "default"<br>}]} | | |
| | Create | POST | <wapi_url>/record:a | {"name":"server.info.com",<br>"ipv4addr":"10.10.10.2"} |

<table>
<tr><td rowspan="8"></td><td rowspan="2"></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:a?_return_fields%2B=name,ipv4addr&_return_as_object=1" -d '{"name":"server.info.com","ipv4addr":"10.10.10.2"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",<br>"ipv4addr": "10.10.10.2",<br>"name": "server.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default</td><td>{"name":"server1.info.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default?_return_fields%2B=name&_return_as_object=1" -d '{"name":"server1.info.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default",<br>"ipv4addr": "10.10.10.2",<br>"name": "server1.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Delete</td><td>DELETE</td><td><wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default"}</td></tr>
<tr><td rowspan="8">AAAA</td><td rowspan="2">Fetch information</td><td>GET</td><td><wapi_url>/record:aaaa</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:aaaa?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLnRlc3QsaG9zdCxmZDYwOmU0NTplMzFiOjo:host.test.com/default",<br>"ipv6addr": "fd60:e45:e31b::",<br>"name": "host.test.com",<br>"view": "default<br>}]}</td></tr>
<tr><td rowspan="3">Create</td><td>POST</td><td><wapi_url>/record:aaaa</td><td>{"name":"server.info.com",<br>"ipv6addr":"fd60:e32:f1b9::2"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:aaaa?_return_fields%2b=name,ipv6addr&_return_as_object=1" -d '{"name":"server.info.com","ipv6addr":"fd60:e32:f1b9::2"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| | | "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:server.info.com/default",<br>"ipv6addr": "fd60:e32:f1b9::2",<br>"name": "server.info.com",<br>"view": "default"<br>}} | | |
| | Modify | PUT | <wapi_url>/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:server.info.com/default | {"name":"server1.info.com"} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:server.info.com/default?_return_fields%2B=name&_return_as_object=1" -d '{"name":"server1.info.com"}' | | |
| | | {"result":<br>{"_ref":<br>"record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default",<br>"ipv6addr": "fd60:e32:f1b9::2",<br>"name": "server1.info.com",<br>"view": "default"<br>}} | | |
| | Delete | DELETE | <wapi_url>/record:aaaa/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default | |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default?_return_as_object=1" | | |
| | | {"result":<br>"record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default"} | | |
| CNAME | Fetch information | GET | <wapi_url>/record:cname | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:cname?_return_as_object=1" | | |
| | | {"result":<br>[{"_ref":<br>"record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS50ZXN0LnRlc3Q:test.test.com/default",<br>"canonical": "cnametest.com",<br>"name": "test.test.com",<br>"view": "default"<br>}]} | | |
| | Create | POST | <wapi_url>/record:cname | {"name":"cnametest.demo.info.com",<br>"canonical":"demo.info.com"} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:cname?_return_fields%2B=name,canonical&_return_as_object=1" -d '{"name":"cnametest.demo.info.com","canonical":"demo.info.com"}' | | |
| | | {"result":<br>{"_ref":<br>"record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default",<br>"canonical": "demo.info.com", | | |

<table>
<tr><td rowspan="6"></td><td></td><td colspan="3">"name": "cnametest.demo.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="2">Modify</td><td>PUT</td><td><wapi_url>/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default</td><td>{"name":"cname.demo.info.com "}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default?_return_fields%2B=name&_return_as_object=1" -d '{"name":"cname.demo.info.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default",<br>"canonical": "demo.info.com",<br>"name": "cname.demo.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Delete</td><td>DELETE</td><td><wapi_url>/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default?_return_as_object=1"</td></tr>
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<tr><td rowspan="6">MX</td><td rowspan="2">Fetch information</td><td>GET</td><td><wapi_url>/record:mx</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:mx?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS50ZXN0Lm1haWwuaG9zdDEudGVzdC5jb20uMQ:mail.test.com/default",<br>"mail_exchanger": "host1.test.com",<br>"name": "mail.test.com",<br>"preference": 1,<br>"view": "default"<br>}]}</td></tr>
<tr><td rowspan="3">Create</td><td>POST</td><td><wapi_url>/record:mx</td><td>{"mail_exchanger":"exchange.info.com",<br>"name":"mx.info.com","preference":1}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:mx?_return_fields%2B=mail_exchanger,name&_return_as_object=1" -d<br>'{"mail_exchanger":"exchange.info.com","name":"mx.info.com","preference":1}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default",<br>"mail_exchanger": "exchange.info.com",<br>"name": "mx.info.com",</td></tr>
</table>

<table>
<tr><td rowspan="6"></td><td></td><td colspan="3">"preference": 1,<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default</td><td>{"name":"mail.info.com "}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default?_return_fields%2B=name&_return_as_object=1" -d '{"name":"mail.info.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default",<br>"mail_exchanger": "exchange.info.com",<br>"name": "mail.info.com",<br>"preference": 1,<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Delete</td><td>DELETE</td><td><wapi_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>"record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default"}</td></tr>
<tr><td rowspan="3">NS</td><td rowspan="3">Fetch information</td><td>GET</td><td><wapi_url>/record:ns</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:ns?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMjcuMC4wLi5jbHVzdGVy:cluster/0.0.127.in-addr.arpa/default",<br>"name": "0.0.127.in-addr.arpa",<br>"nameserver": "cluster",<br>"view": "default"<br>},<br>{"_ref":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4uY2x1c3Rlcg:cluster/1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa/default",<br>"name": "1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa",<br>"nameserver": "cluster",<br>"view": "default"<br>},<br>……<br>{"_ref":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3QuaG9zdC50ZXN0LmluZm8uY29t:host.test.info.com/test.info.com/default",</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| | | "name": "test.info.com",<br>"nameserver": "host.test.info.com",<br>"view": "default"<br>}]} | | |
| | Create | POST | <wapi_url>/record:ns | {"name":"info.com",<br>"nameserver":"infoblox.localdomain",<br>"addresses":[{"address":"192.168.11.0<br>"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:ns?_return_fields%2B=name,nameserver,addresses&_return_as_object=1" -d<br>'{"name":"info.com","nameserver":"infoblox.localdomain","addresses":[{"address":"192.168.11.0"}]}' | | |
| | | {"result":<br>{"_ref":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:infoblox.localdomain/info.com/default",<br>"addresses":<br>[{"address": "192.168.11.0",<br>"auto_create_ptr": true<br>}],<br>"name": "info.com",<br>"nameserver": "infoblox.localdomain",<br>"view": "default"<br>}} | | |
| | Modify | PUT | <wapi_url>/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:infoblox.localdomain/info.com/default | {"nameserver":"nios.info.com"} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT<br>"https://grid-master/wapi/v2.12/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:infoblox.localdomain/info.com/default?_return_fields%2B=name,nameserver&_return_as_object=1" -d '{"nameserver":"nios.info.com"}' | | |
| | | {"result":<br>{"_ref":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default",<br>"name": "info.com",<br>"nameserver": "nios.info.com",<br>"view": "default"<br>}} | | |
| | Delete | DELETE | <wapi_url>/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default | |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE<br>"https://grid-master/wapi/v2.12/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default?_return_as_object=1" | | |
| | | {"result":<br>"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default"} | | |
| PTR | Fetch information | GET | <wapi_url>/record:ptr | |
| | | curl -k -u admin:infoblox -X GET<br>"https://grid-master/wapi/v2.12/record:ptr?_return_as_object=1" | | |

<table>
<tr><td></td><td></td><td colspan="3">{"result":<br>[{"_ref":<br>"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTI3LjAuMC4xLmxvY2FsaG9zdA:1.0.0.127.in-addr.arpa/default",<br>"ptrdname": "localhost",<br>"view": "default"<br>},<br>{"_ref":<br>"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmlwNi4wLjAuMC4wLjAuMC4wLjAuMC

<table>
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<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default"}</td></tr>
<tr><td rowspan="12">TXT</td><td rowspan="3">Fetch information</td><td>GET</td><td><wapi_url>/record:txt</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:txt?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result": [{"_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default", "name": "mail.test.com", "text": "This a mail server", "view": "default" }]}</td></tr>
<tr><td rowspan="3">Create</td><td>POST</td><td><wapi_url>/record:txt</td><td>{"name":"server.info.com", "text":"This a host server"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:txt?_return_fields%2B=name,text&_return_as_object=1" -d '{"name":"server.info.com","text":"This a host server"}'</td></tr>
<tr><td colspan="3">{"result": {"_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default", "name": "server.info.com", "text": "This a host server", "view": "default" }}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default</td><td>{"text":"This is a test server"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default?_return_fields%2B=text&_return_as_object=1" -d '{"text":"This a test server"}'</td></tr>
<tr><td colspan="3">{"result": {"_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default", "name": "server.info.com", "text": "This a test server", "view": "default" }}</td></tr>
<tr><td>Delete</td><td>DELETE</td><td><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default</td><td></td></tr>
</table>

<table>
<tr><td></td><td></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default?_return_as_object=1"</td></tr>
<tr><td></td><td></td><td colspan="3">{"result": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default"}</td></tr>
<tr><td rowspan="11">SRV</td><td rowspan="3">Fetch information</td><td>GET</td><td><wapi_url>/record:srv</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:srv?_return_as_object=1"</td></tr>
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<tr><td rowspan="3">Create</td><td>POST</td><td><wapi_url>/record:srv</td><td>{"name": "_ssh._tcp.info.com",<br>"port": 22,<br>"priority": 10,<br>"target": "info.com",<br>"weight": 10}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:srv?_return_fields%2B=name,target&_return_as_object=1" -d '{"name": "_ssh._tcp.info.com","port": 22,"priority": 10,"target": "info.com","weight": 10}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default",<br>"name": "_ssh._tcp.info.com",<br>"port": 22,<br>"priority": 10,<br>"target": "info.com",<br>"view": "default",<br>"weight": 10<br>}}</td></tr>
<tr><td rowspan="3">Modify</td><td>PUT</td><td><wapi_url>/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default</td><td>{"priority": 20}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default?_return_fields%2B=priority&_return_as_object=1" -d '{"priority": 20}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default",<br>"name": "_ssh._tcp.info.com",<br>"port": 22,</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| | | "priority": 20,<br>"target": "info.com",<br>"view": "default",<br>"weight": 10<br>}} | | |
| | Delete | DELETE | <wapi_url>/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default | |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default?_return_as_object=1" | | |
| | | {"result": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_ssh._tcp.info.com/default"} | | |

### Retrieve all the records in a zone

The API function allrecords returns the following types of records within a particular zone:

- 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
- record:unknown
- sharedrecord:a
- sharedrecord:aaaa
- sharedrecord:mx
- sharedrecord:srv
- sharedrecord:txt

For the other types of records, it returns “UNSUPPORTED”.

| Operation | REST Method | API Call |
|---|---|---|
| | | **Sample cURL Command** |
| | | **Sample Output** |
| Retrieve all records in a zone | GET | <wapi_url>/allrecords?zone=info.com |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/allrecords?zone=info.com&_return_as_object=1" | |
| | {"result": [{"_ref": "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3NvYSQuX2RlZmF1bHQuY29tLmluZm8:", | |

```
  "comment": "Auto-created by Add Zone",
  "name": "",
  "type": "UNSUPPORTED",
  "view": "default",
  "zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX25zJC5fZGVmYXVsdC5jb20uaW5mby4uaW5mb2Jsb3gubG9jYWxkb21haW4:",
   "comment": "Auto-created by Add Zone",
   "name": "",
   "type": "UNSUPPORTED",
   "view": "default",
   "zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby5ob3N0:host",
  "comment": "",
  "name": "host",
  "type": "record:host_ipv4addr",
  "view": "default",
  "zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvLHNlcnZlciwxMC4xMC4xMC4y:server",
  "comment": "",
  "name": "server",
  "type": "record:a",
  "view": "default",
  "zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2FhYWEkLl9kZWZhdWx0LmNvbS5pbmZvLHNlcnZlcixmZDYwOmUzMjpmMWI5Ojoy:server",
  "comment": "",
  "name": "server",
  "type": "record:aaaa",
  "view": "default",
  "zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby50ZXN0:test",
  "comment": "",
  "name": "test",
  "type": "record:host_ipv4addr",
  "view": "default",
  "zone": "info.com"
}]}
```


### Retrieve non-system generated records

Records have a creator field. The possible values for this field are SYSTEM, STATIC and DYNAMIC. You can either fetch STATIC and DYNAMIC records separately, or combine them in a Multiple Object Body request as shown in the section Multiple Object Body Feature using */request*

Run a GET request on the records by passing creator as the parameter.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th></tr>
<tr><th colspan="2">Sample cURL Command</th></tr>
<tr><th colspan="2">Sample Output</th></tr>
<tr><td rowspan="3">Retrieve non-system generated A records</td><td>GET</td><td><wapi_url>/record:a?creator=STATIC</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:a?creator=STATIC&_return_fields%2B=creator&_return_as_object=1"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",<br>"creator": "STATIC",<br>"ipv4addr": "10.10.10.2",<br>"name": "server.info.com",<br>"view": "default"<br>},<br>{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmRlbW8scHJpbnQsMTAuMTAuTAuMjE:print.demo.com/default",<br>"creator": "STATIC",<br>"ipv4addr": "10.10.10.21",<br>"name": "print.demo.com",<br>"view": "default"<br>}]}</td></tr>
<tr><td rowspan="3">Retrieve non-system generated records of all types within zone demo001.com</td><td>GET</td><td><wapi_url>/allrecords?zone=demo001.com&creator=STATIC</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/allrecords?zone=demo001.com&creator=STATIC&_return_fields%2B=creator&_return_as_object=1"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref":<br>"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uZGVtbzAwMS5ob3N0MDAx:host001",<br>"comment": "",<br>"name": "host001",<br>"type": "record:host_ipv4addr",<br>"view": "default",<br>"zone": "demo001.com"},<br>{"_ref":<br>"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLI9kZWZhdWx0LmNvbS5kZW1vMDAxLGhvc3QwMDIsMTAuMC4wLjI:host002",<br>"comment": "",<br>"name": "host002",<br>"type": "record:a",<br>"view": "default",<br>"zone": "demo001.com"}]}</td></tr>
</table>

### Search for a record based on some criteria

Run a GET request on host/A records by passing required criteria as the parameter

| Operation | REST Method | API Call |
|---|---|---|
| | | Sample cURL Command |
| | | Sample Output |
| Retrieve host by object reference | GET | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_as_object=1" | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{ "_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjAwLg:172.26.1.200/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.200" }], "name": "host1.test.com", "view": "default" }} | |
| Search host by name | GET | <wapi_url>/record:host?name=host1.info.com |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?name=host1.info.com&_return_as_object=1" | |
| | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdDEuMTAuMTAuMTAuMjAu:10.10.10.20/host1.info.com/default", "configure_for_dhcp": false, "host": "host1.info.com", "ipv4addr": "10.10.10.20" }], "name": "host1.info.com", "view": "default" }]} | |
| Search host by EA (Location is set to Santa Clara) | GET | <wapi_url>/record:host?_return_fields%2B=extattrs&*Location:=Santa%20Clara |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=extattrs&*Location%3A=Santa%20Clara&_return_as_object=1" | |
| | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "extattrs": {"Location": {"value": "Santa Clara"} | |

| | |
|---|---|
| | }, "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjAwLg:172.26.1.200/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.200" }], "name": "host1.test.com", "view": "default" }]} |
| Search host by IP address range | GET <wapi_url>/record:host?ipv4addr>=10.10.10.100&ipv4addr<=10.10.10.102 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?ipv4addr>=10.10.10.100&ipv4addr<=10.10.10.102&_return_as_object=1" |
| | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-1.abc.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTEuMTAuMTAuMTAuMTAxLg:10.10.10.101/host-1.abc.com/default", "configure_for_dhcp": false, "host": "host-1.abc.com", "ipv4addr": "10.10.10.101"}], "name": "host-1.abc.com", "view": "default" }, {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0y:host-2.abc.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTIuMTAuMTAuMTAuMTAyLg:10.10.10.102/host-2.abc.com/default", "configure_for_dhcp": false, "host": "host-2.abc.com", "ipv4addr": "10.10.10.102" }], "name": "host-2.abc.com", "view": "default"}, {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQubmV0Lnh5ei50ZXN0LjEwLjEwLjEwLjEwLjEwMC4:10.10.10.100/test.xyz.net/default", "configure_for_dhcp": false, "host": "test.xyz.net", "ipv4addr": "10.10.10.100"}], "name": "test.xyz.net", "view": "default" }]} |
| Search host by subnet | GET <wapi_url>/record:host?network=10.10.10.0/24 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?network=10.10.10.0/24&_return_as_object=1" |
| | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-1.abc.com/default", |

| | |
|---|---|
| | "ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTEuMTAuMTAuMTAuMTAxLg:10.10.10.101/host-1.abc.com/default",<br>"configure_for_dhcp": false,<br>"host": "host-1.abc.com",<br>"ipv4addr": "10.10.10.101"}],<br>"name": "host-1.abc.com",<br>"view": "default" },<br>.....<br>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQubmV0Lnh5ei50ZXN0LjEwLjEwLjEwLjEwMC4:10.10.10.100/test.xyz.net/default",<br>"configure_for_dhcp": false,<br>"host": "test.xyz.net",<br>"ipv4addr": "10.10.10.100"}],<br>"name": "test.xyz.net",<br>"view": "default" }]} |
| Get A record using object reference | GET <wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default?_return_as_object=1" |
| | {"result":<br>{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",<br>"ipv4addr": "10.10.10.2",<br>"name": "server.info.com",<br>"view": "default"<br>}} |

The third example uses the *_return_fields+* to specify the Extensible Attribute (EA) as an extra attribute. Also, prepend '*' to the front of the EA name.

### Search for network objects based on regular expressions

You can use regular expressions to search for most network objects.

The following example filters network objects based on a regular expression.

The first example lists all A records that contain *info.com* in their name. The second example lists all zones that start with an "i" and contain "lo". The regular expression for this will be ^i.*lo.*$

Remember to specify the ~ modifier to indicate you are querying with a regular expression.

| **Operation** | **REST Method** | **API Call** |
|---|---|---|
| | | **Sample cURL Command** |
| | | **Sample Output** |
| Search for A records that contain | GET | <wapi_url>/record:a?name~=info.com&_return_fields=name |

| | |
|---|---|
| info.com in the name | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:a?name~=info.com&_return_fields=name&_return_as_object=1" |
| | {"result": [{"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default", "name": "server.info.com" }, {"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default", "name": "host.test.info.com" }]} |
| Search for zones that start with an "i" and contain "lo" | GET <wapi_url>/zone_auth?fqdn~=^i.*lo.*$&_return_fields=fqdn |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_auth?fqdn~=^i.*lo.*$&_return_fields=fqdn&_return_as_object=1" |
| | {"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLI9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default", "fqdn": "infoblox.com" }, {"_ref": "zone_auth/ZG5zLnpvbmUkLI9kZWZhdWx0LmNvbS5pbmZvcm1ibG94:informblox.com/default", "fqdn": "informblox.com" }, {"_ref": "zone_auth/ZG5zLnpvbmUkLI9kZWZhdWx0LmNvbS5pbmdsbw:inglo.com/default", "fqdn": "inglo.com" }]} |

### Aliases for a host

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get all the aliases on a host | GET | <wapi_url>/record:host?_return_fields%2B=aliases&name=printer.info.com | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=aliases&name=printer.info.com&_return_as_object=1" | | |
| | {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI:printer.info.com/default", "aliases": ["scanner.info.com"], "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucHJpbnRlci4xNjAuMjAuMS4xMDAu:160.20.1.100/printer.info.com/default", "configure_for_dhcp": false, "host": "printer.info.com", "ipv4addr": "160.20.1.100" }], "name": "printer.info.com", "view": "default" }]} | | |

<table>
<tr><td rowspan="3">Add a host with aliases</td><td>POST</td><td><wapi_url>/record:host</td><td>{"name":"wapialias.info.com",<br>"ipv4addrs":<br>[{"ipv4addr":"172.26.1.2"}],<br>"aliases": [<br>"remote","pointer"]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=aliases&_return_as_object=1" -d '{"name":"wapialias.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.2"}],"aliases": [ "remote","pointer"]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",<br>"aliases":<br>["remote.info.com",<br>"pointer.info.com"<br>],<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapialias.info.com",<br>"ipv4addr": "172.26.1.2"<br>}],<br>"name": "wapialias.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Modify aliases on a host</td><td>PUT</td><td><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default</td><td>{"aliases": ["local"]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": ["local"]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",<br>"aliases":<br>["local.info.com"],<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapialias.info.com",<br>"ipv4addr": "172.26.1.2"<br>}],<br>"name": "wapialias.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td>Remove aliases from a host</td><td>PUT</td><td><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default</td><td>{"aliases": [ ]}</td></tr>
</table>

| | |
|---|---|
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": [ ]}' |
| | {"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapialias.info.com",<br>"ipv4addr": "172.26.1.2"<br>}],<br>"name": "wapialias.info.com",<br>"view": "default"<br>}} |

### Change the IP address of a host

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Change IP address of a host | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default | {"ipv4addrs":<br>[{"ipv4addr": "172.26.1.21"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs":[{"ipv4addr": "172.26.1.21"}]}' | | |
| | {"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.test.com",<br>"ipv4addr": "172.26.1.21"<br>}],<br>"name": "host1.test.com",<br>"view": "default"<br>}} | | |

### Add or remove IP addresses from a host

To add or remove IP address from a host record without altering the original list, use *ipv4addrs+* or *ipv4addrs-*

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add IP address to a host record | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default | {"ipv4addrs+": [{"ipv4addr": "192.168.1.21"}, {"ipv4addr": "10.10.10.21"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs+":[{"ipv4addr":"192.168.1.21"},{"ipv4addr":"10.10.10.21"}]}' | | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjEu:172.26.1.21/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.21" }, {"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTkyLjE2OC4xLjIxLg:192.168.1.21/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "192.168.1.21" }, {"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTAuMTAuMTAuMjEu:10.10.10.21/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "10.10.10.21" }], "name": "host1.test.com", "view": "default" }} | |
| Remove IP address from a host record | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default | {"ipv4addrs-": [{"ipv4addr": "192.168.1.21"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs-":[{"ipv4addr":"192.168.1.21"}]}' | | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{"_ref": | | |

| | |
|---|---|
| | "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.test.com",<br>"ipv4addr": "172.26.1.21"<br>},<br>{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTAuMTAuMTAuMjEu:10.10.10.21/host1.test.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.test.com",<br>"ipv4addr": "10.10.10.21"<br>}],<br>"name": "host1.test.com",<br>"view": "default"<br>}} |

### Add a host with the next available IP address from a network

Use the function *next_available_ip* by specifying it in the option *_function*. You can use it in the longhand form or the shorthand form(*func)*. The following example also covers the different forms *func* supports in shorthand.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add host with next available IP address from a network | POST | <wapi_url>/record:host | {"name":"wapi.info.com",<br>"ipv4addrs":<br>[{"ipv4addr":{"_object_function":"next_available_ip",<br>"_parameters":{"exclude":["10.10.10.1","10.10.10.2"]},<br>"_result_field":"ips",<br>"_object" : "network",<br>"_object_parameters":{"network":"10.10.10.0/24"}}}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"_object_function":"next_available_ip","_parameters":{"exclude":["10.10.10.1","10.10.10.2"]},"_result_field":"ips","_object" : "network","_object_parameters":{"network":"10.10.10.0/24"}}}]}' | | |
| | {"result":<br>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4xMC4xMC4zLg:10.10.10.3/wapi.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapi.info.com",<br>"ipv4addr": "10.10.10.3"<br>}],<br>"name": "wapi.info.com",<br>"view": "default"<br>}} | | |
| | POST | <wapi_url>/record:host | {"name": "wapi.info.com",<br>"ipv4addrs":[{"ipv4addr":<br>"func:nextavailableip:10.10.10.0/24"}]} |

curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name": "wapi.info.com","ipv4addrs":[{"ipv4addr":"func:nextavailableip:10.10.10.0/24"}]}'


```
{"result":
  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
   "ipv4addrs":
     [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4xMC4xMC4xLg:10.10.10.10/wapi.info.com/default",
       "configure_for_dhcp": false,
       "host": "wapi.info.com",
       "ipv4addr": "10.10.10.10"
     }],
   "name": "wapi.info.com",
    "view": "default"
}}
```


| | | |
|---|---|---|
| POST | <wapi_url>/record:host | {"name":"wapi.info.com", "ipv4addrs": [{"ipv4addr": "func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default"}]} |

curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":"func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default "}]}'


```
{"result":
  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
  "ipv4addrs":
    [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTIuMTY4LjEuMS4:192.168.1.5/wapi.info.com/default",
     "configure_for_dhcp": false,
     "host": "wapi.info.com",
     "ipv4addr": "192.168.1.5"
  }],
  "name": "wapi.info.com",
  "view": "default"
}}
```


| | | |
|---|---|---|
| POST | <wapi_url>/record:host | {"name": "wapi.info.com", "ipv4addrs": [{"ipv4addr": "func:nextavailableip:172.21.10.0/24,default"}]} |

curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name": "wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip:172.21.10.0/24,default"}]}'


```
{"result":
  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
   "ipv4addrs":
    [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xNzIuMjEuMTAuMS4:172.21.10.1/wapi.info.com/default",
       "configure_for_dhcp": false,
       "host": "wapi.info.com",
       "ipv4addr": "172.21.10.1"
     }],
   "name": "wapi.info.com",
```

<table>
<tr><td></td><td colspan="3">"view": "default"<br>}}</td></tr>
<tr><td></td><td>POST</td><td><wapi_url>/record:host</td><td>{"name": "wapi.info.com",<br>"ipv4addrs": [{"ipv4addr":<br>"func:nextavailableip: 192.168.1.10-192.168.1.15"}]}</td></tr>
<tr><td></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 "<br>-d '{"name": "wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip:<br>192.168.1.10-192.168.1.15"}]}'</td></tr>
<tr><td></td><td colspan="3">{"result":<br>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTI<br>uMTY4LjEuMTAu:192.168.1.10/wapi.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapi.info.com",<br>"ipv4addr": "192.168.1.10"<br>}],<br>"name": "wapi.info.com",<br>"view": "default"<br>}}</td></tr>
<tr><td>Add host with next available IP from a network using a complex search (using Extensible Attributes) and inherit the EAs</td><td>POST</td><td><wapi_url>/record:host</td><td>{"name":"wapi.info.com",<br>"ipv4addrs":[{"ipv4addr" : {"_object_function":"next_available_ip",<br>"_result_field":"ips",<br>"_object":"network",<br>"_object_parameters":{"*Region" : "EMEA"},<br>"_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},<br>"use_for_ea_inheritance":true}]}</td></tr>
<tr><td></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 "<br>-d<br>'{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"_object_function":"next_available_ip","_result_field":<br>"ips","_object":"network","_object_parameters":{"*Region" :<br>"EMEA"},"_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},"use_for_ea_inheritance":true}]}'</td></tr>
<tr><td></td><td colspan="3">{"result":<br>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4<br>wLjAuMy4:10.0.0.3/wapi.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "wapi.info.com",<br>"ipv4addr": "10.0.0.3"<br>}],<br>"name": "wapi.info.com",<br>"view": "default"<br>}}</td></tr>
</table>

Similarly, you can create an A record or AAAA record with the next available IP address from a network.

### Add a host with a fixed address

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add a host with a fixed address | POST | <wapi_url>/record:host | {"name":"host.info.com", "ipv4addrs": [{"ipv4addr":"172.26.1.20", "mac":"aa:bb:cc:11:22:21"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '{"name":"host.info.com","ipv4addrs":[{"ipv4addr":"172.26.1.20","mac":"aa:bb:cc:11:22:21"}]}' | | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xNzIuMjYuMS4yMC4:172.26.1.20/host.info.com/default", "configure_for_dhcp": true, "host": "host.info.com", "ipv4addr": "172.26.1.20", "mac": "aa:bb:cc:11:22:21" }], "name": "host.info.com", "view": "default" }} | | |

### Add Extensible Attributes to an object

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add an extensible attribute | PUT | <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default | {"extattrs": {"Site": {"value": "East"}}} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default?_return_fields%2B=extattrs&_return_as_object=1" -d '{"extattrs":{"Site": {"value": "East"}}}' | | |
| | {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default", "extattrs": {"Site": {"value": "East"} }, "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4wLjAuMy4:10.0.0.3/wapi.info.com/default", "configure_for_dhcp": false, "host": "wapi.info.com", "ipv4addr": "10.0.0.3" }], "name": "wapi.info.com", | | |

| | |
|---|---|
| | "view": "default"<br>}} |

## TTL

By default, the TTL is inherited from the Grid.

To override the default settings, while modifying TTL at the zone level, specify the TTL value in the *soa_default_ttl* field and also set the *use_grid_zone_timer* field to true. When this is set to *false*, the *soa_default_ttl* value indicates the default ttl.While modifying at the record level, remember to set the *use_ttl* flag to true. Otherwise, the value will be inherited from a higher-level setting.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Fetch the default grid-wide TTL value | GET | <wapi_url>/grid:dns?_return_fields%2B=default_ttl | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid:dns?_return_fields%2B=default_ttl&_return_as_object=1" | | |
| | {"result":<br>[{"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",<br>"default_ttl": 28800<br>}]} | | |
| Fetch TTL for a zone | GET | <wapi_url>/zone_auth?fqdn=info.com&_return_fields%2B=use_grid_zone_timer,soa_default_ttl | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_auth?fqdn=info.com&_return_fields%2B=use_grid_zone_timer,soa_default_ttl&_return_as_object=1" | | |
| | {"result":<br>[{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",<br>"fqdn": "info.com",<br>"soa_default_ttl": 28800,<br>"use_grid_zone_timer": false,<br>"view": "default"<br>}]} | | |
| Modify TTL for a zone | PUT | <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default | {"use_grid_zone_timer":true, "soa_default_ttl":5000} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default?_return_fields%2B=use_grid_zone_timer,soa_default_ttl&_return_as_object=1" -d '{"use_grid_zone_timer":true,"soa_default_ttl":5000}' | | |
| | {"result":<br>{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",<br>"fqdn": "info.com",<br>"soa_default_ttl": 5000,<br>"use_grid_zone_timer": true,<br>"view": "default"<br>}} | | |
| Modify TTL for a record | PUT | <wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default | {"use_ttl": true, "ttl":3600} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tY | | |

| | |
|---|---|
| | WlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default?_return_fields%2B=ttl&_return_as_object=1" -d '{"use_ttl": true,"ttl":3600}' |
| | {"result":<br>{"_ref":<br>"record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default",<br>"name": "mail.test.com",<br>"text": "This a mail server",<br>"ttl": 3600,<br>"view": "default"<br>}} |

## Name Server Groups

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | | Sample cURL Command | |
| | | Sample Output | |
| Fetch name server groups and its members | GET | <wapi_url>/nsgroup | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/nsgroup?_return_fields%2B=grid_primary,grid_secondaries&_return_as_object=1" | | |
| | {"result":<br>{"_ref": "nsgroup/ZG5zLm5zX2dyb3VwJFRlc3Qy:demo",<br>"grid_primary":<br>[{"name": "infoblox.localdomain",<br>"stealth": false}],<br>"name": "demo"<br>}} | | |
| Create a name server group | POST | <wapi_url>/nsgroup | {"name":"test",<br>"grid_primary":[{"name":"infoblox.localdomain"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/nsgroup?_return_fields%2B=grid_primary&_return_as_object=1" -d '{"name":"test","grid_primary":[{"name":"infoblox.localdomain"}]}' | | |
| | {"result":<br>{"_ref": "nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test",<br>"grid_primary":<br>[{"name": "infoblox.localdomain",<br>"stealth": false}],<br>"grid_secondaries": [],<br>"name": "test"<br>}} | | |
| Add grid secondaries to the name server group | PUT | <wapi_url>/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test | {"grid_secondaries":[{"name":"member1.localdomain"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test?_return_fields%2B=grid_primary,grid_secondaries&_return_as_object=1" -d '{"grid_secondaries":[{"name":"member1.localdomain"}]}' | | |
| | {"result":<br>{"_ref": "nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test",<br>"grid_primary":<br>[{"name": "infoblox.localdomain",<br>"stealth": false<br>}], | | |

| | |
|---|---|
| | "grid_secondaries":<br>[{"enable_preferred_primaries": false,<br>"grid_replicate": true,<br>"lead": false,<br>"name": "member1.localdomain",<br>"preferred_primaries": [],<br>"stealth": false<br>}],<br>"name": "test"<br>}} |

## Zone Transfers

Zone transfers can be enabled and configured at the grid, member or zone level. While configuring at the zone level, in addition to the *allow_tranfer* flag, set the *use_allow_transfer* flag.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | | **Sample cURL Command** | |
| | | **Sample Output** | |
| Enable and specify the zone transfer settings at the grid level | PUT | <wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_return_fields%2B=allow_transfer | {"allow_transfer":<br>[{ "_struct": "addressac",<br>"address":"Any",<br>"permission":"ALLOW"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_return_fields%2B=allow_transfer&_return_as_object=1" -d '{"allow_transfer": [{ "_struct": "addressac","address":"Any","permission":"ALLOW"}]}' | | |
| | {"result":<br>{"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",<br>"allow_transfer":<br>[{"_struct": "addressac",<br>"address": "Any",<br>"permission": "ALLOW"<br>}]}} | | |
| Enable and specify the zone transfer settings at the member level | PUT | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain?_return_fields%2B=allow_transfer | {"allow_transfer":<br>[{ "_struct": "addressac",<br>"address":"10.10.0.0/16",<br>"permission":"ALLOW"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain?_return_fields%2B=allow_transfer&_return_as_object=1" -d '{"allow_transfer": [{ "_struct": "addressac","address":"10.10.0.0/16","permission":"ALLOW"}]}' | | |
| | {"result":<br>{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain",<br>"allow_transfer":<br>[{"_struct": "addressac",<br>"address": "10.10.0.0/16",<br>"permission": "ALLOW"<br>}],<br>"host_name": "member1.localdomain",<br>"ipv4addr": "172.26.1.3"<br>}} | | |

| | | | |
|---|---|---|---|
| Enable and specify the zone transfer settings at the zone level | PUT | <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=allow_transfer | {"use_allow_transfer":true, "allow_transfer": [{ "_struct": "addressac", "address":"192.168.0.1/24", "permission":"ALLOW"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=allow_transfer&_return_as_object=1" -d '{"use_allow_transfer":true,"allow_transfer": [{ "_struct": "addressac","address":"192.168.0.0/24","permission":"ALLOW"}]}' | | |
| | {"result": {"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default", "allow_transfer": [{"_struct": "addressac", "address": "192.168.0.0/24", "permission": "ALLOW" }], "fqdn": "demo.com", "view": "default" }} | | |

## DNSSEC

DNSSEC can be enabled at the grid, member, view or zone level.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Enable DNSSEC at the zone level | PUT | <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params | {"use_dnssec_key_params":true} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params&_return_as_object=1" -d '{"use_dnssec_key_params":true}' | | |
| | {"result": { "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default", "fqdn": "demo.com", "use_dnssec_key_params": true, "view": "default" }} | | |
| Disable DNSSEC at the zone level | PUT | <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params | {"use_dnssec_key_params":false} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params&_return_as_object=1" -d '{"use_dnssec_key_params":false}' | | |
| | {"result": { "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default", "fqdn": "demo.com", "use_dnssec_key_params": false, "view": "default" }} | | |

<table>
<tr><td colspan="2" rowspan="2">Sign the zone</td><td>POST</td><td><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_operation</td><td>{"operation":"SIGN"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_operation" -d '{"operation":"SIGN"}'</td></tr>
<tr><td rowspan="6">Get the zone key (key pair type can be ZSK or KSK)</td><td rowspan="2">Initiate the DNSSEC key download</td><td>POST</td><td><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_get_zone_keys</td><td>{"key_pair_type":"ZSK"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_get_zone_keys" -d '{"key_pair_type":"ZSK"}'</td></tr>
<tr><td colspan="3">{"token":<br>"eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWzej1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmhb874\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iznkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n",<br>"url":<br>"https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt"<br>}</td></tr>
<tr><td rowspan="2">Download the zone key</td><td>GET</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/ req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt" -o "zsk_key_pair.txt"</td></tr>
<tr><td colspan="4">The content of the file looks similar to this:<br>Keytag: 61578<br>Size: 1024<br>demo.com. IN DNSKEY 256 3 8<br>AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FlNOgO9y98Ln0kmIzSpeLtqYzye10Dxfm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmkPmstgugfcCTLdvBHlECJS/C3XqcT<br>Private-key-format: v1.2<br>Algorithm: 8 (RSASHA256)<br>Modulus:<br>{0}_{aes}_sAAAAO3ti1bn6M/m4oXt8f3LUuyxdAjKjucwWVCL/0w3oqirdHsimtiVLc1mLwR7eZ1TTCnPfQDOW6USdmUY384tk6hush/WjFrSpxwA2yPr1b2s0Lk5QkvK/bn/JHkO4nj2BJk4QWegKJJHTkUhQzRlewr9Kj11OXfzExgu+FzkLTxvp6wSrmkY5hs4FV6yIZPWGA3DStRWv0f/cZDqvDZNpZyfS/0W4HarfTb1IUfLariT<br>PublicExponent: {0}_{aes}_EAAAADPzg/q9WRyzpo50uikbF6g=<br>PrivateExponent:<br>{0}_{aes}_sAAAAG7ErDwDyxx4Xg171crlSdxCMOOKbZmO8JGsXO6qo5eDNvdEfxp4E4DUIaiCM64aHmshvS6J1ILwHipTwkfdLyXTi7IasLDFHNWi8csJCMGQSD7slPxp96Jy/d4OGaVWgeVdEtBaD4BK+2g8/Z85eqvkvv/JCG+EHbiUYYWUwHMUqpgw/2QmiCT1NQAkUb6uiI9r3IE7gu9nGWJlx4s2u763UScbPtCfjOaRocAFcEaV<br>Prime1:<br>{0}_{aes}_YAAAAI9bl0ISOndVzocDRXWRBknU3qPBRY4wO2jIIzybdxgmXuPaBAW9CFK+JviUd+86JSEH5iMWay0NguohYK2d6Itg7y/Rnx3pTMJcjN0NrxzM9fRZFfJ7arb3ZEHn5pn7kA==<br>Prime2:<br>{0}_{aes}_YAAAACjERzXr9L/dNo9ZQld42jJmUKSMeBy3gC6Fr45W0iTJ6+PDawnknH1AlBDdbhkKdFDMMuM1ltHo44gYt5aLQPZlAq6GVMjPLX6vQnu/MOPXkkqrNL85BtNlyaZLkcR5Gg==</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Exponent1:<br>{0}_{aes}_YAAAANmPwbRhwdBAkLQZHRD2seAC3YpYcHTgS7t7kSq48AF1wtfOmXKpcGeYg0Q4gAeTtJl4ELbB0B1ZLRFSDq7UklY+LfrCnl3mZsrM1fKwTkqHwglxuPwSjNJolAlJ5SxXDw==<br>Exponent2:<br>{0}_{aes}_YAAAAFVZPm9Y3k0nAnSI/NIGC7kqPmjgAFHV6FvklTgjEdD3Oq8S3vDZ1GOvl51i8htJt4D/wvc6RCqP0kRYFISzSAPlFObN/HZtN69l8QtQU2x+k9zDiE0S4IPqAFZy8ndqzg==<br>Coefficient:<br>{0}_{aes}_YAAAAO3i/B+eJC8sD0esfl/7l8lp4x2t7UDwNQh0vWQEp/6a8una6PUHuzTPuin/n+Lrtak6OFkx/xGLNAE7G8KHtHA34XBpDRMQ7L7Yw/3fWbVhvS5DcBXPYNefxiUolb9EeQ==</td></tr>
<tr><td></td><td>Remove the stored file using the token</td><td>POST</td><td><wapi_url>/fileop?_function=downloadcomplete</td><td>{"token": "eJytUM..v\n"}</td></tr>
<tr><td colspan="4">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWzej1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmhb874\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iznkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n"}'</td></tr>
<tr><td rowspan="5">Export trust anchor in DS format</td><td>Initiate the export</td><td>POST</td><td><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_export&operation=EXPORT_DS</td><td></td></tr>
<tr><td colspan="4">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_export&operation=EXPORT_DS"</td></tr>
<tr><td colspan="4">{"token":<br>"eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWzej1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmhb874\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iznkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n",<br>"url":<br>"https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0502010716646241/ds_records.txt"<br>}</td></tr>
<tr><td>Download the DS records</td><td>GET</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-0502010716646241/ds_records.txt</td><td></td></tr>
<tr><td colspan="4">curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/ req_id- DOWNLOAD-0502010716646241/ds_records.txt" -o "ds_records.txt"</td></tr>
<tr><td colspan="4">The content of the file looks similar to this:<br>demo.com. IN DS 31006 8 1 EBFDB0B60D074F196E78ABAEF837451FD2027EE6<br>demo.com. IN DS 31006 8 2<br>7650608506F1037C278C3DB123F3799F089AC8FFFE58835970A8FD570A4C7C52<br>department.demo.com. IN DS 43081 8 1 008A09A1F7890B5256FA552316FBF806C72940E6<br>department.demo.com. IN DS 43081 8 2<br>CC7116368234A1C139C23A98545C35F280AE04AB672FA496A25C9BEEBA83C7CE</td></tr>
<tr><td>Remove the stored file using the token</td><td>POST</td><td><wapi_url>/fileop?_function=downloadcomplete</td><td>{"token": "eJytUM..v\n"}</td></tr>
<tr><td colspan="4">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWzej1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmhb874\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yP</td></tr>
</table>

| | | |
|---|---|---|
| | | szaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iznkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n"}' |
| Get a list of the zone keys | GET | <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params,is_dnssec_enabled,dnssec_keys |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B=use_dnssec_key_params,is_dnssec_enabled,dnssec_keys&_return_as_object=1" | |
| | {"result":<br>{ "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default",<br>"dnssec_keys":<br>[{"algorithm": "8",<br>"next_event_date": 1584039064,<br>"public_key":<br>"AwEAAboElNe0pPpO+SXWII8JY05tPL1WKqJV2GcoJqbUbiGa6dgD4NDpZ8taFax7cpSp3TKEULJiwXCoQ+tpPD8f0IJO0LRtGYnn99VYIX8eNuQ+jH2oJl66hnarmzx99YWowZNlQ4UsJiLe1bo1+5Qt0vsgN8m0bLJHLgDnUBWga7BmNXsjVgXJD/QRHyfZdsSX5qbrvnogzZTjFYe+wsA2mZXvv5MhOE3qdCpOv3W4GkX//x3HaRU1R1ozKlmpQM6Rk4+EUjjNT9gGXt2EMGGZDNBgvhMbjzuBhuyu0GX5zqVi5ZkN++MOYQQUQ5EFKgJPW7oFJMtTYi4XmV7bwlZA/rM=",<br>"status": "ACTIVE",<br>"tag": 4654,<br>"type": "KSK"<br>},<br>{"algorithm": "8",<br>"next_event_date": 1555095064,<br>"public_key":<br>"AwEAAd2v3QOi88A/SDjY62yX33euAHSqdp+ORs98xRv93GmYli3zVMGfbglgJdhQ8UvRiCNBu+rECpZBzV//xgRh+WVoHAAPILGpuKuoqy7g82a9fenQPhAC1fP61pVJpl06bVEGVNS8GsARgMnf6Lf084Dri32tq4WLfJdoj+rd4wir",<br>` "status": "PUBLISHED",<br>"tag": 49428,<br>"type": "ZSK"<br>},<br>{"algorithm": "8",<br>"next_event_date": 1555095064,<br>"public_key":<br>"AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FlNOgO9y98Ln0kmIzSpeLtqYzye10Dxm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmkPmstgugfcCTLdvBHlECJS/C3XqcT",<br>"status": "ACTIVE",<br>"tag": 61578,<br>"type": "ZSK"<br>}],<br>"fqdn": "demo.com",<br>"is_dnssec_enabled": true,<br>"use_dnssec_key_params": true,<br>"view": "default"<br>}} | |

## Response Policy Zones

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.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Fetch RPZs | GET | <wapi_url>/zone_rp | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_rp?_return_fields%2B=rpz_policy&_return_as_object=1" | | |
| | {"result": [{"_ref": "zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5nb29nbC53d3c:www.googl.com/default", "fqdn": "www.googl.com", "rpz_policy": "NXDOMAIN", "view": "default" }]} | | |
| Create a RPZ | POST | <wapi_url>/zone_rp | {"fqdn": "inblox.com", "rpz_policy": "SUBSTITUTE", "rpz_severity": "WARNING", "substitute_name": "infoblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_rp?_return_fields%2B=fqdn,rpz_policy,rpz_severity,substitute_name&_return_as_object=1" -d '{"fqdn": "inblox.com","rpz_policy": "SUBSTITUTE","rpz_severity": "WARNING","substitute_name": "infoblox.com"}' | | |
| | {"result": {"_ref": "zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdw:inblox.com/default", "fqdn": "inblox.com", "rpz_policy": "SUBSTITUTE", "rpz_severity": "WARNING", "substitute_name": "infoblox.com" }} | | |
| Add a substitution rule for DNS A records | POST | <wapi_url>/record:rpz:a | {"name": "server.inblox.com", "ipv4addr":"1.1.1.156", "rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:a?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"server.inblox.com","ipv4addr":"1.1.1.156","rp_zone":"inblox.com"}' | | |
| | {"result": {"_ref": "record:rpz:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm9ibG93LHNlcnZlciwxLjEuMS4xNTY:server.inblox.com/default", "ipv4addr": "1.1.1.156", "name": "server.inblox.com", "rp_zone": "inblox.com", "view": "default" }} | | |
| Add a substitution rule for DNS PTR records | POST | <wapi_url>/record:rpz:ptr | {"name": "135.10.10.10.in-addr.arpa.inblox.com ", |

| | | | |
|---|---|---|---|
| | | | "ipv4addr":"10.10.10.135",<br>"ptrdname": "inblox.com",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:ptr?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name": "135.10.10.10.in-addr.arpa.inblox.com ","ipv4addr":"10.10.10.135","ptrdname": "inblox.com","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{"_ref":<br>"record:rpz:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cuYXJwYS5pbi1hZGRyLjEwLjEwLjEwLjEzNS5pbmZvYmxvdy5jb20:135.10.10.10.in-addr.arpa.inblox.com/default",<br>"name": "135.10.10.10.in-addr.arpa.inblox.com",<br>"ptrdname": "inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a substitution rule for IP trigger policy | POST | <wapi_url>/record:rpz:a:ipaddress | {"name":"1.1.1.6.inblox.com",<br>"ipv4addr":"2.2.2.6",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:a:ipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"1.1.1.6.inblox.com","ipv4addr":"2.2.2.6","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{"_ref":<br>"record:rpz:a:ipaddress/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm9ibG93LHJwei1pcC4xLjEuMS42LjMyLDIuMi4yLjY:1.1.1.6.inblox.com/default",<br>"ipv4addr": "2.2.2.6",<br>"name": "1.1.1.6.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a Block Domain Name (No Such Domain) Rule | POST | <wapi_url>/record:rpz:cname | {"name":"test.inblox.com",<br>"canonical":"",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"test.inblox.com","canonical":"","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{"_ref":<br>"record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy50ZXN0:test.inblox.com/default",<br>"canonical": "",<br>"name": "test.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a Block Domain Name (No Data) Rule | POST | <wapi_url>/record:rpz:cname | {"name":"demo.inblox.com",<br>"canonical":"*",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"demo.inblox.com","canonical":"*","rp_zone":"inblox.com"}' | | |

| | | | |
|---|---|---|---|
| | {"result":<br>{"_ref":<br>"record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5kZW1v:demo.inblox.com/default",<br>"canonical": "*",<br>"name": "demo.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a Passthru Domain Name Rule | POST | <wapi_url>/record:rpz:cname | {"name":"pass.inblox.com",<br>"canonical":"pass.inblox.com",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"pass.inblox.com","canonical":"pass.inblox.com","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{ "_ref":<br>"record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5wYXNz:pass.inblox.com/default",<br>"canonical": "pass.inblox.com",<br>"name": "pass.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a Substitute Domain Name Rule | POST | <wapi_url>/record:rpz:cname | {"name":"sub.inblox.com",<br>"canonical":"test",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"sub.inblox.com","canonical":"test","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{"_ref":<br>"record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5zdWI:sub.inblox.com/default",<br>"canonical": "test",<br>"name": "sub.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} | | |
| Add a Block Client IP Address (No Such Domain) Rule | POST | <wapi_url>/record:rpz:cname:clientipaddress | {"name":"10.10.10.200.inblox.com",<br>"canonical":"",<br>"rp_zone":"inblox.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"10.10.10.200.inblox.com","canonical":"","rp_zone":"inblox.com"}' | | |
| | {"result":<br>{"_ref":<br>"record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIwMC4zMg:10.10.10.200.inblox.com/default",<br>"canonical": "",<br>"name": "10.10.10.200.inblox.com",<br>"rp_zone": "inblox.com", | | |

<table>
<tr><td></td><td colspan="3">"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Block Client IP Address (No Data) Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:clientipaddress</td><td>{"name":"10.10.10.210.inblox.com",<br>"canonical":"*",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"10.10.10.210.inblox.com","canonical":"*","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIxMC4zMg:10.10.10.210.inblox.com/default",<br>"canonical": "*",<br>"name": "10.10.10.210.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Passthru Client IP Address Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:clientipaddress</td><td>{"name":"10.10.10.220.inblox.com",<br>"canonical":"rpz-passthru",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"10.10.10.220.inblox.com","canonical":"rpz-passthru","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIyMC4zMg:10.10.10.220.inblox.com/default",<br>"canonical": "rpz-passthru",<br>"name": "10.10.10.220.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Substitute Domain Name (Client IP Address) Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:clientipaddressdn</td><td>{"name":"10.10.10.230.inblox.com",<br>"canonical":"test",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddressdn?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"10.10.10.230.inblox.com","canonical":"test","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:clientipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIzMC4zMg:10.10.10.230.inblox.com/default",<br>"canonical": "test",<br>"name": "10.10.10.230.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
</table>

<table>
<tr><td rowspan="3">Add a Block IP Address (No Such Domain) Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:ipaddress</td><td>{"name":"5.5.5.10.inblox.com",<br>"canonical":"",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:rpz:cname:ipaddress?_return_fields%2B=name,rp_zone&_retur<br>n_as_object=1" -d '{"name":"5.5.5.10.inblox.com","canonical":"","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5yc<br>HotaXAuNS41LjUuMTAuMzI:5.5.5.10.inblox.com/default",<br>"canonical": "",<br>"name": "5.5.5.10.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Block IP Address (No Data) Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:ipaddress</td><td>{"name":"5.5.5.25.inblox.com",<br>"canonical":"*",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:rpz:cname:ipaddress?_return_fields%2B=name,rp_zone&_retur<br>n_as_object=1" -d '{"name":"5.5.5.25.inblox.com","canonical":"*","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5yc<br>HotaXAuNS41LjUuMjUuMzI:5.5.5.25.inblox.com/default",<br>"canonical": "*",<br>"name": "5.5.5.25.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Passthru IP Address Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:ipaddress</td><td>{"name":"5.5.5.100.inblox.com",<br>"canonical":"5.5.5.100",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:rpz:cname:ipaddress?_return_fields%2B=name,rp_zone&_retur<br>n_as_object=1" -d '{"name":"5.5.5.100.inblox.com","canonical":"5.5.5.100","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5yc<br>HotaXAuNS41LjUuMTAwLjMy:5.5.5.100.inblox.com/default",<br>"canonical": "5.5.5.100",<br>"name": "5.5.5.100.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a Substitute Domain Name (IP Address) Rule</td><td>POST</td><td><wapi_url>/record:rpz:cname:ipaddressdn</td><td>{"name":"5.5.5.200.inblox.com",<br>"canonical":"test",<br>"rp_zone":"inblox.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST<br>"https://grid-master/wapi/v2.12/record:rpz:cname:ipaddressdn?_return_fields%2B=name,rp_zone&_ret<br>urn_as_object=1" -d '{"name":"5.5.5.200.inblox.com","canonical":"test","rp_zone":"inblox.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:rpz:cname:ipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5</td></tr>
</table>

| | |
|---|---|
| | ycHotaXAuNS41LjUuMjAwLjMy:5.5.5.200.inblox.com/default",<br>"canonical": "test",<br>"name": "5.5.5.200.inblox.com",<br>"rp_zone": "inblox.com",<br>"view": "default"<br>}} |
| Fetch all objects belonging to a RPZ | GET <wapi_url>/allrpzrecords?zone=inblox.com<br>curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/allrpzrecords?zone=inblox.com&_return_fields%2B=rpz_rule&_return_as_object=1"<br>{"result":<br>[{"_ref":<br>"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdyxycHotaXAuMS4xLjEuNi4zMiwyLjIuMi42:1.1.1.6",<br>"comment": "",<br>"name": "1.1.1.6",<br>"rpz_rule": "SubstituteIPv4AddressRecord",<br>"type": "record:rpz:a:ipaddress",<br>"view": "default",<br>"zone": "inblox.com"<br>},<br>{"_ref":<br>"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwLjMy:5.5.5.10",<br>"comment": "",<br>"name": "5.5.5.10",<br>"rpz_rule": "BlockNxdomainIpaddr",<br>"type": "record:rpz:cname:ipaddress",<br>"view": "default",<br>"zone": "inblox.com"<br>},<br>{"_ref":<br>"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjI1LjMy:5.5.5.25",<br>"comment": "",<br>"name": "5.5.5.25",<br>"rpz_rule": "BlockNoDataIpaddr",<br>"type": "record:rpz:cname:ipaddress",<br>"view": "default",<br>"zone": "inblox.com"<br>},<br>{"_ref":<br>"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwMC4zMg:5.5.5.100",<br>"comment": "",<br>"name": "5.5.5.100",<br>"rpz_rule": "PassthruIpaddr",<br>"type": "record:rpz:cname:ipaddress",<br>"view": "default",<br>"zone": "inblox.com"<br>},<br>{"_ref":<br>"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjIwMC4zMg:5.5.5.200",<br>"comment": "",<br>"name": "5.5.5.200", |

```
  "rpz_rule": "SubstituteIPAddressCname",
  "type": "record:rpz:cname:ipaddressdn",
  "view": "default",
  "zone": "inblox.com"
 },
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  "comment": "",
  "name": "10.10.10.200",
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  "type": "record:rpz:cname:clientipaddress",
  "view": "default",
  "zone": "inblox.com"
 },
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  "comment": "",
  "name": "10.10.10.210",
  "rpz_rule": "BlockNoDataClientIpaddr",
  "type": "record:rpz:cname:clientipaddress",
  "view": "default",
  "zone": "inblox.com"
 },
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  "comment": "",
  "name": "10.10.10.220",
  "rpz_rule": "PassthruClientIpaddr",
  "type": "record:rpz:cname:clientipaddress",
  "view": "default",
  "zone": "inblox.com"
 },
 {"_ref":
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  "comment": "",
  "name": "10.10.10.230",
  "rpz_rule": "SubstituteClientIPAddressCname",
  "type": "UNSUPPORTED",
  "view": "default",
  "zone": "inblox.com"
 },
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  "comment": "",
  "name": "135.10.10.10.in-addr.arpa",
  "rpz_rule": "SubstitutePTRRecord",
  "type": "record:rpz:ptr",
  "view": "default",
  "zone": "inblox.com"
 },
```

```
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  "comment": "",
  "name": "demo",
  "rpz_rule": "BlockNoDataDomain",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "inblox.com"
 },
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  "name": "pass",
  "rpz_rule": "SubstituteCName",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "inblox.com"
 },
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  "comment": "",
  "name": "server",
  "rpz_rule": "SubstituteARecord",
  "type": "record:rpz:a",
  "view": "default",
  "zone": "inblox.com"
 },
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   "view": "default",
   "zone": "inblox.com"
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   "name": "test",
   "rpz_rule": "BlockNxdomainDomain",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "inblox.com"
}]
}
```

## DNS Traffic Control

| Resource type | Operation | REST Method | API Call | Sample Body (for POST and PUT) |
|---|---|---|---|---|
| | | Sample cURL Command | | |
| | | Sample Output | | |
| DTC Servers | Fetch information | GET | <wapi_url>/dtc:server | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/dtc:server?_return_as_object=1" | | |
| | | {"result": [{"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHNlcnZlcjE:server1", "host": "1.1.1.25", "name": "server1" }, {"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJGhvc3Q:host", "host": "10.10.10.20", "name": "host" }, {"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJFNFUlZFUl9URU1QTkFNRV8yMjEyNw:SERVER_TEMPNAME_22127", "host": "example.com", "name": "SERVER_TEMPNAME_22127" }]} | | |
| | Create | POST | <wapi_url>/dtc:server | {"name": "test-server", "host": "2.2.2.56"} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:server?_return_fields%2B=name,host&_return_as_object=1" -d '{"name": "test-server","host": "2.2.2.56"}' | | |
| | | {"result": {"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server", "host": "2.2.2.56", "name": "test-server" }} | | |
| DTC Pools | Fetch information | GET | <wapi_url>/dtc:pool | |
| | | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/dtc:pool?_return_as_object=1" | | |
| | | {"result": [{"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCRwb29sMQ:pool1", "name": "pool1" }, {"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCRQT09MX1RFTVBOQU1FXzIyMTI3:POOL_TEMPNAME_22127", "name": "POOL_TEMPNAME_22127" }]} | | |
| | Create | POST | <wapi_url>/dtc:pool | {"name": "test-pool", "availability": "ALL", "lb_preferred_method":"GLOBAL_AVAILABILITY", "monitors": ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaXRvcl9pY21wJGljbXA:icmp"], "servers": |

| | | | | |
|---|---|---|---|---|
| | | | | [{"ratio": 4,<br>"server":<br>"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"name": "test-pool","availability": "ALL","lb_preferred_method":"GLOBAL_AVAILABILITY","monitors": ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaXRvcl9pY21wJGljbXA:icmp"],"servers": [{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"}]}' | | |
| | | {"result":<br>{"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",<br>"name": "test-pool"<br>"servers":<br>[{"ratio": 4,<br>"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"<br>}]}} | | |
| | Modify to add another server | PUT | <wapi_url>/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool | {"servers":<br>[{"ratio": 4,<br>"server":<br>"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"<br>},<br>{"ratio": 4,<br>"server":<br>"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"servers": [{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server" },{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]}' | | |
| | | {"result":<br>{"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",<br>"name": "test-pool",<br>"servers":<br>[{"ratio": 4,<br>"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"<br>},<br>{"ratio": 4,<br>"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"<br>}]}} | | |
| | Modify the ratio | PUT | <wapi_url>/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool | {"servers":<br>[{"ratio": 20,<br>"server":<br>"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"<br>},<br>{"ratio": 80,<br>"server":<br>"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]} |
| | | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"servers": [{"ratio": 20,"server": | | |

<table>
<tr><td></td><td></td><td colspan="3">"dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server" },{"ratio": 80,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]}'</td></tr>
<tr><td></td><td></td><td colspan="3">{"result":<br>{"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",<br>"name": "test-pool",<br>"servers":<br>[{"ratio": 20,<br>"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"<br>},<br>{"ratio": 80,<br>"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"<br>}]}}</td></tr>
<tr><td rowspan="4">DTC Load Balanced Domain Name</td><td rowspan="2">Fetch information</td><td>GET</td><td><wapi_url>/dtc:lbdn</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/dtc:lbdn?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"dtc:lbdn/ZG5zLmlkbnNfbGJkbiRMQkROX1RFTVBOQU1FXzIyMTI3:LBDN_TEMPNAME_22127",<br>"name": "LBDN_TEMPNAME_22127"<br>}]}</td></tr>
<tr><td rowspan="2">Create</td><td>POST</td><td><wapi_url>/dtc:lbdn</td><td>{"auth_zones":<br>["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],<br>"lb_method": "ROUND_ROBIN",<br>"name": "test-lbdn",<br>"patterns": ["server.dtc.com"],<br>"pools":<br>[{"ratio": 4,<br>"pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool"}]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:lbdn?_return_fields%2B=name,pools,auth_zones,patterns&_return_as_object=1" -d '{"auth_zones":["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],"lb_method": "ROUND_ROBIN","name": "test-lbdn","patterns": ["server.dtc.com"],"pools": [{"ratio": 4,"pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool"}]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiR0ZXN0LWxiZG4:test-lbdn",<br>"auth_zones":<br>["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],<br>"name": "test-lbdn",<br>"patterns":<br>["server.dtc.com"],<br>"pools":<br>[{"pool": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",<br>"ratio": 4<br>}]}}</td></tr>
</table>

## IP address management related scenarios

### Add a network or container

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add a network | POST | <wapi_url>/network | {"network": "1.1.1.0/24"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network&_return_as_object=1 " -d '{"network": "1.1.1.0/24"}' | | |
| | {"result": {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:1.1.1.0/24/default", "network": "1.1.1.0/24", "network_view": "default" }} | | |
| Add a network and assign to a member | POST | <wapi_url>/network | {"network": "2.2.2.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.3"}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network": "2.2.2.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.3"}]}' | | |
| | {"result": {"_ref": "network/ZG5zLm5ldHdvcmskMi4yLjIuMC8yNC8w:2.2.2.0/24/default", "members": [{"_struct": "dhcpmember", "ipv4addr": "172.26.1.3", "ipv6addr": null, "name": "member1.localdomain" }], "network": "2.2.2.0/24", "network_view": "default" }} | | |
| Add a network and automatically create the corresponding reverse lookup zone | POST | <wapi_url>/network | {"network": "10.10.10.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.2"}], "auto_create_reversezone":true} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network": "10.10.10.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.2"}],"auto_create_reversezone":true}' | | |
| | {"result": {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:10.10.10.0/24/default", "members": [{"_struct": "dhcpmember", "ipv4addr": "172.26.1.2", "ipv6addr": null, "name": "infoblox.localdomain" }], "network": "10.10.10.0/24", | | |

<table>
<tr><td></td><td colspan="3">"network_view": "default"<br>}}</td></tr>
<tr><td rowspan="3">Add a network with DHCP options</td><td>POST</td><td><wapi_url>/network</td><td>{"network":"192.168.0.0/24",<br>"options":<br>[{"name": "domain-name-servers",<br>"num": 6,<br>"use_option": true,<br>"value": "192.168.0.2",<br>"vendor_class": "DHCP"},<br>{"name": "routers",<br>"num": 3,<br>"use_option": true,<br>"value": "192.168.0.1",<br>"vendor_class": "DHCP"}],<br>"use_options":true}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=options&_return_as_object=1" -d '{"network":"192.168.0.0/24","options":[{"name": "domain-name-servers","num": 6,"use_option": true,"value": "192.168.0.2","vendor_class": "DHCP"},"name": "routers","num": 3,"use_option": true,"value": "192.168.0.1","vendor_class": "DHCP"}],"use_options":true}'</td></tr>
<tr><td colspan="3">{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OS4wLjAvMjQvMA:192.168.0.0/24/default",<br>"network": "192.168.0.0/24",<br>"network_view": "default",<br>"options":<br>[{"name": "dhcp-lease-time",<br>"num": 51,<br>"use_option": false,<br>"value": "43200",<br>"vendor_class": "DHCP"},<br>{"name": "domain-name-servers",<br>"num": 6,<br>"use_option": true,<br>"value": "192.168.0.2",<br>"vendor_class": "DHCP"},<br>{"name": "routers",<br>"num": 3,<br>"use_option": true,<br>"value": "192.168.0.1",<br>"vendor_class": "DHCP"}<br>]}</td></tr>
<tr><td rowspan="3">Add a network from next available network</td><td>POST</td><td><wapi_url>/network</td><td>{"network":<br>"func:nextavailablenetwork:10.0.0.0/8,default,24",<br>"network_view":"default",<br>"extattrs":<br>{"Country":{"value":"UK"},<br>"Region":{"value":"EMEA"}}}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members,extattrs&_return_as_object=1" -d '{"network": "func:nextavailablenetwork:10.0.0.0/8,default,24","network_view": "default","extattrs": {"Country":{"value":"UK"},"Region":{"value":"EMEA"}}}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default",<br>"extattrs":<br>{"Country": {"value": "UK"},</td></tr>
</table>

| | |
|---|---|
| | "Region": {"value": "EMEA"}<br>},<br>"members": [],<br>"network": "10.0.0.0/24",<br>"network_view": "default"<br>}} |

The last example uses the function *next_available_network* by specifying it in the option *_function*, in the shorthand form.

### Search for a network

| Operation | REST Method | API Call |
|---|---|---|
| | | Sample cURL Command |
| | | Sample Output |
| Search for a network | GET | <wapi_url>/network?network=172.21.10.0/24 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?network=172.21.10.0/24&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default",<br>"network": "172.21.10.0/24",<br>"network_view": "default"<br>}]} | |
| Search for network(s) that begins with a certain value (192.168) | GET | <wapi_url>/network?network~=192.168 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?network~=192.168&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default",<br>"network": "192.168.1.0/24",<br>"network_view": "default"<br>},<br>{"_ref":<br>"network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMDEuMC8yNC8w:192.168.101.0/24/default",<br>"network": "192.168.101.0/24",<br>"network_view": "default"<br>}]} | |
| Search for network(s) based on the netmask (/27) | GET | <wapi_url>/network?network~=.0/27 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?network~=.0/27&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjcvMA:10.10.100.0/27/default",<br>"network": "10.10.100.0/27",<br>"network_view": "default"<br>},<br>{"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNy8x:1.1.1.0/27/demo",<br>"network": "1.1.1.0/27",<br>"network_view": "demo"<br>}]} | |
| Search by EA (Networks in the HQ) | GET | <wapi_url>/network?_return_fields%2B=extattrs&*Site:=HQ |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?_return_fields%2B=extattrs&*Site%3A=HQ&_return_as_object=1" | |

| | |
|---|---|
| | {"result":<br>[{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default",<br>"extattrs":<br>{"Building": {"value": "Remote"},<br>"Site": {"value": "HQ"}},<br>"network": "192.168.1.0/24",<br>"network_view": "default"<br>},<br>{"_ref":<br>"network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMDAuMC8yNC8w:192.168.100.0/24/default",<br>"extattrs":<br>{"Building": {"value": "Main"},<br>"Site": {"value": "HQ"}},<br>"network": "192.168.100.0/24",<br>"network_view": "default"<br>}]} |
| Search by EA (Networks in the HQ but not in the Main Building) | GET <wapi_url>/network?_return_fields%2B=extattrs&*Site:=HQ |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?_return_fields%2B=extattrs&*Site%3A=HQ&*Building!=Main&_return_as_object=1" |
| | {"result":<br>[{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default",<br>"extattrs":<br>{"Building": {"value": "Remote"},<br>"Site": {"value": "HQ"}},<br>"network": "192.168.1.0/24",<br>"network_view": "default"<br>}]} |

### Get next available subnet

Use the function *next_available_network* by specifying it in the option *_function*.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Create a network from the next available subnet from a network in the Region(EA) EMEA | POST | <wapi_url>/network | {"network":<br>{"_object_function":<br>"next_available_network",<br>"_result_field":"networks",<br>"_object":"network",<br>"_object_parameters":<br>{"*Region" : "EMEA"},<br>"_parameters":<br>{"cidr":24}},<br>"network_view":"default"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network&_return_as_object=1 " -d '{"network":{"_object_function":"next_available_network","_result_field":"networks","_object":"network","_object_parameters":{"*Region" : "EMEA"},"_parameters":{"cidr":24}},"network_view":"default"}' | | |
| | {<br>"result": { | | |

| | |
|---|---|
| | "_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4wLjAvMjQvMA:192.168.0.0/24/default", "network": "192.168.0.0/24", "network_view": "default" } } |

### Get next available address from a subnet

Use the function *next_available_ip* by specifying it in the option *_function*. For this operation you would need the *_ref* of the subnet you want to query.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get the next available IP address in a subnet | POST | <wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default?_function=next_available_ip | {"num":1} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default?_function=next_available_ip&_return_as_object=1" -d '{"num":1}' | | |
| | {"result": {"ips": [ "172.21.10.1"] }} | | |
| Get the next 5 available IP addresses in a subnet | POST | <wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default?_function=next_available_ip | {"num":5} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default?_function=next_available_ip&_return_as_object=1" -d '{"num":5}' | | |
| | {"result": {"ips": ["172.21.10.1", "172.21.10.2", "172.21.10.3", "172.21.10.4", "172.21.10.5" ]}} | | |

### Reparent subnets while deleting network container

This example uses the *remove_subnets* argument available with the network container DELETE operation. This will retain the networks within the container.

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Reparent subnets while deleting network container | DELETE | <wapi_url>/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzgvMA:10.0.0.0/8/default?remove_subnets=false |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzgvMA:10.0.0.0/8/default?remove_subnets=false&_return_as_object=1" | |

| | |
|---|---|
| | {"result":<br>{"_ref":<br>"networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzgvMA:10.0.0.0/8/default"}} |

### Get all the addresses based on a search criteria

| Operation | REST Method | API Call |
|---|---|---|
| | | Sample cURL Command |
| | | Sample Output |
| Get addresses in a subnet | GET | <wapi_url>/ipv4address?network=10.10.10.0/24 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ipv4address?network=10.10.10.0/24&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUzLzA:10.10.10.1",<br>"ip_address": "10.10.10.1",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "UNUSED",<br>"types": [],<br>"usage": []<br>},<br>{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.2",<br>"ip_address": "10.10.10.2",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "UNUSED",<br>"types": [],<br>"usage": []<br>},<br>….<br>{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU1LzA:10.10.10.255",<br>"ip_address": "10.10.10.255",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "USED",<br>"types": ["BROADCAST"],<br>"usage": []<br>}]} | |
| Get addresses in a given range (10.10.10.252 - 10.10.10.254) | GET | <wapi_url>/ipv4address?ip_address>=10.10.10.252&&ip_address<=10.10.10.254 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ipv4address?ip_address%3E=10.10.10.252&ip_address%3C=10.10.10.254&_return_as_object=1" | |

| | |
|---|---|
| | {"result":<br>[{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUyLzA:10.10.10.252",<br>"ip_address": "10.10.10.252",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "UNUSED",<br>"types": [],<br>"usage": []<br>},<br>{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUzLzA:10.10.10.253",<br>"ip_address": "10.10.10.253",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "UNUSED",<br>"types": [],<br>"usage": []<br>},<br>{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.254",<br>"ip_address": "10.10.10.254",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": [],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects": [],<br>"status": "UNUSED",<br>"types": [],<br>"usage": []<br>}]} |

### Zone associations on a network

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| List zone associations on a network | GET | <wapi_url>/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default?_return_fields%2B=zone_associations&_return_as_object=1" | | |
| | {"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default",<br>"network": "10.1.0.0/16",<br>"network_view": "default",<br>"zone_associations":<br>[{"fqdn": "info.com",<br>"is_default": true, | | |

| | | | |
|---|---|---|---|
| | "view": "default"<br>}]}} | | |
| Add a zone association to a network | PUT | <wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default | {"zone_associations": [{"fqdn": "test.org","is_default":true}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default?_return_fields%2B=zone_associations&_return_as_object=1" -d '{"zone_associations": [{"fqdn": "test.com","is_default":true}]}' | | |
| | {"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default",<br>"network": "172.21.10.0/24",<br>"network_view": "default",<br>"zone_associations":<br>[{"fqdn": "test.com",<br>"is_default": true,<br>"view": "default"<br>}]}} | | |

## Add a fixed address

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.
For example, if you have a printer in your network, you can reserve a particular IP address to be assigned to it every time it is turned on.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Add a fixed address | POST | <wapi_url>/fixedaddress | {"ipv4addr":"192.168.1.100", "mac":"aa:bb:cc:11:22:21"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"192.168.1.100","mac":"aa:bb:cc:11:22:21"}' | | |
| | {"result":<br>{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/default",<br>"ipv4addr": "192.168.1.100",<br>"mac": "aa:bb:cc:11:22:21",<br>"network_view": "default"<br>}} | | |
| Add a fixed address reservation | POST | <wapi_url>/fixedaddress | {"ipv4addr":"172.26.1.200", "mac":"00:00:00:00:00:00"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"172.26.1.200","mac":"00:00:00:00:00:00"}' | | |
| | {"result":<br>{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTcyLjI2LjEuMjAwLjAuLg:172.26.1.200/default",<br>"ipv4addr": "172.26.1.200",<br>"mac": "00:00:00:00:00:00", | | |

| | | | |
|---|---|---|---|
| | "network_view": "default"<br>}} | | |
| Add a fixed address with next available IP | POST | <wapi_url>/fixedaddress?_return_fields=ipv4addr | {"ipv4addr": "func:nextavailableip:10.1.0.0/16",<br>"mac":"ff:ff:ff:ff:ff:ff"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"func:nextavailableip:10.1.0.0/16","mac":"ff:ff:ff:ff:ff:ff"}' | | |
| | {"result":<br>{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTAuMS4wLjEuMC4u:10.1.0.1/default",<br>"ipv4addr": "10.1.0.1",<br>"mac": "ff:ff:ff:ff:ff:ff",<br>"network_view": "default"<br>}} | | |
| Add an IPv6 fixed address | POST | <wapi_url>/ipv6fixedaddress | {"ipv6addr":"2001:0db8:85a3:0000:0000:8a2e:0370:7334", "duid":"00:02:00:01:02:03:04:05:07:a0"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/ipv6fixedaddress?_return_fields%2B=ipv6addr,duid&_return_as_object=1" -d '{"ipv6addr":"2001:0db8:85a3:0000:0000:8a2e:0370:7334","duid":"00:02:00:01:02:03:04:05:07:a0"}' | | |
| | {"result":<br>{"_ref":<br>"ipv6fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:2001:0db8:85a3:0000:0000:8a2e:0370:7334/default",<br>"ipv4addr": "2001:0db8:85a3:0000:0000:8a2e:0370:7334",<br>"duid": "00:02:00:01:02:03:04:05:07:a0",<br>"network_view": "default"<br>}} | | |

### Search for a fixed address by MAC

The following example uses the *_return_fields+* to add the mac address to the list of fields that are returned.

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Search fixed address by MAC | GET | <wapi_url>/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21&_return_as_object=1" | |
| | {"result":<br>[{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/default",<br>"ipv4addr": "192.168.1.100",<br>"mac": "aa:bb:cc:11:22:21",<br>"network_view": "default"<br>}]} | |

### Complex search for a fixed address by Microsoft Server

The following example uses the *_return_fields+* to add the Microsoft Server to the list of fields that are returned. Since the search field is a structure, we pass it in the body of a PUT call.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="3">Search for a fixed address by Microsoft Server</td><td>PUT</td><td><wapi_url>/fixedaddress?_method=GET&_return_fields%2B=ipv4addr,mac,ms_server,name</td><td>{"ms_server": {"_struct": "msdhcpserver", "ipv4addr": "192.168.4.21"}}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X PUT "https://grid-master/wapi/v2.12/fixedaddress?_method=GET&_return_fields%2B=ipv4addr,mac,ms_server,name&_return_as_object=1" -d '{"ms_server":{"_struct": "msdhcpserver","ipv4addr": "192.168.4.21"}}'</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC40LjMuMC4xNy4:192.168.4.3/Company%201",<br>"ipv4addr": "192.168.4.3",<br>"mac": "12:34:56:78:91:23",<br>"ms_server":<br>{"_struct": "msdhcpserver",<br>"ipv4addr": "192.168.4.21"},<br>"name": "test",<br>"network_view": "Company 1"<br>},<br>{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC40LjguMC4xNy4:192.168.4.8/Company%201",<br>"ipv4addr": "192.168.4.8",<br>"mac": "ca:fe:ca:fe:be:ef",<br>"ms_server":<br>{"_struct": "msdhcpserver",<br>"ipv4addr": "192.168.4.21"},<br>"name": "awo666",<br>"network_view": "Company 1"<br>},<br>{"_ref":<br>"fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC40Ljg1LjAuMTcu:192.168.4.85/Company%201",<br>"ipv4addr": "192.168.4.85",<br>"mac": "00:50:56:ba:01:ec",<br>"ms_server":<br>{"_struct": "msdhcpserver",<br>"ipv4addr": "192.168.4.21"},<br>"name": "192.168.4.85",<br>"network_view": "Company 1"<br>}]}</td></tr>
</table>

### Get information about an IP address

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Query an IP address | GET | <wapi_url>/ipv4address?ip_address=10.10.10.10 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ipv4address?ip_address=10.10.10.10&_return_as_object=1" | |
| | {"result": [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTAvMA:10.10.10.10", "ip_address": "10.10.10.10", "is_conflict": false, "mac_address": "", "names": [], "network": "10.10.10.0/24", "network_view": "default", "objects": [], "status": "UNUSED", "types": [], "usage": [] }]} | |

### Get unused IP addresses in a subnet

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Query for unused IP addresses in a subnet | GET | <wapi_url>/ipv4address?network=10.10.10.0/24&status=UNUSED |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ipv4address?network=10.10.10.0/24&status=UNUSED&_return_as_object=1" | |
| | {"result": [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTcvMA:10.10.10.17", "ip_address": "10.10.10.17", "is_conflict": false, "mac_address": "", "names": [], "network": "10.10.10.0/24", "network_view": "default", "objects": [], "status": "UNUSED", "types": [], "usage": [] }, {"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTgvMA:10.10.10.108", "ip_address": "10.10.10.108", "is_conflict": false, "mac_address": "", "names": [], "network": "10.10.10.0/24", "network_view": "default", "objects": [], "status": "UNUSED", "types": [], | |

| | |
|---|---|
| | "usage": []<br>},<br>….<br>]} |

### Search for any object with an IP address

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Search for objects by IP address | GET | <wapi_url>/ipv4address?status=USED&ip_address=10.10.10.20 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ipv4address?status=USED&ip_address=10.10.10.20&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20",<br>"ip_address": "10.10.10.20",<br>"is_conflict": false,<br>"mac_address": "",<br>"names": ["host1.info.com"],<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"objects":<br><br>["record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default"],<br>"status": "USED",<br>"types": [ "HOST" ],<br>"usage": [ "DNS" ]<br>}]} | |

### Search for an IP address

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Search an IP address | GET | <wapi_url>/search?address=172.26.1.100 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/search?address=172.26.1.100&_return_as_object=1" | |
| | {"result":<br>[{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",<br>"ipv4addr": "172.26.1.100",<br>"name": "host.test.info.com",<br>"view": "default"<br>},<br>{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjI2LjEuMC8yNC8w:172.26.1.0/24/default",<br>"network": "172.26.1.0/24",<br>"network_view": "default"<br>}]} | |

### Delete an IP address

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Delete an IP | DELETE | <wapi_url>/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20 |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20&_return_as_object=1" | |
| | {"result":"ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20"} | |

## Network Views

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.

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.

For example, network views can be used in cloud environments to isolate each of the tenant to their own respective view. This enables support of overlapping networks across different tenants, each in its own network view, thus enabling multi-tenancy in cloud environments.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get all DNS views | GET | <wapi_url>/view | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/view?_return_as_object=1" | | |
| | {"result":<br>[{"_ref": "view/ZG5zLnZpZXckLl9kZWZhdWx0:default/true",<br>"is_default": true,<br>"name": "default"<br>},<br>{"_ref": "view/ZG5zLnZpZXckLjE:default.test/false",<br>"is_default": false,<br>"name": "default.test"<br>},<br>{"_ref": "view/ZG5zLnZpZXckLjI:default.cloud/false",<br>"is_default": false,<br>"name": "default.cloud"<br>}]} | | |
| Get authoritative zones for a DNS view | GET | <wapi_url>/zone_auth?view=default.test | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/zone_auth?view=default.test&_return_as_object=1" | | |
| | {"result":<br>[{"_ref": "zone_auth/ZG5zLnpvbmUkLjEuY29tLmluZm8:info.com/default.test",<br>"fqdn": "info.com",<br>"view": "default.test"<br>}, | | |

<table>
<tr><td></td><td>{"_ref": "zone_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test",<br>"fqdn": "test.org",<br>"view": "default.test"<br>}]}</td></tr>
<tr><td rowspan="3">Get all records for a zone in a DNS view</td><td>GET | <wapi_url>/record:host?zone=info.com&view=default.test |</td></tr>
<tr><td>curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?zone=info.com&view=default.test&_return_as_object=1"</td></tr>
<tr><td>{"result":<br>[{"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8uc2VydmVy:server.info.com/default.test",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5zZXJ2ZXIuMTAuMTAuMC4xMDAu:10.10.0.100/server.info.com/default.test",<br>"configure_for_dhcp": false,<br>"host": "server.info.com",<br>"ipv4addr": "10.10.0.100"<br>}],<br>"name": "server.info.com",<br>"view": "default.test"<br>},<br>{"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS4xLjEwMC4:10.1.1.100/mailer.info.com/default.test",<br>"configure_for_dhcp": false,<br>"host": "mailer.info.com",<br>"ipv4addr": "10.1.1.100",<br>"mac": "aa:bb:cc:11:22:33"<br>}],<br>"name": "mailer.info.com",<br>"view": "default.test"<br>}]}</td></tr>
<tr><td rowspan="3">Get all network views</td><td>GET | <wapi_url>/networkview |</td></tr>
<tr><td>curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/networkview?_return_as_object=1"</td></tr>
<tr><td>{"result":<br>[{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default/true",<br>"is_default": true,<br>"name": "default"<br>},<br>{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:test/false",<br>"is_default": false,<br>"name": "test"<br>},<br>{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQy:cloud/false",<br>"is_default": false,<br>"name": "cloud"<br>}]}</td></tr>
<tr><td rowspan="2">Create a network view</td><td>POST | <wapi_url>/networkview | {"name": "demo"}</td></tr>
<tr><td>curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/networkview?_return_fields%2B=name&_return_as_object=1" -d '{"name": "demo"}'</td></tr>
</table>

<table>
<tr><td></td><td colspan="3">{"result":<br>{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:demo/false",<br>"is_default": false,<br>"name": "demo"<br>}}</td></tr>
<tr><td rowspan="3">Create an authoritative zone within a network view</td><td>POST</td><td><wapi_url>/zone_auth</td><td>{"fqdn": "infoblox.com",<br>"view": "default.test"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_auth?_return_fields%2B=fqdn,network_view&_return_as_object=1" -d '{"fqdn": "infoblox.com","view": "default.test"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "zone_auth/ZG5zLnpvbmUkLjEuY29tLmluZm9ibG94:infoblox.com/default.test",<br>"fqdn": "infoblox.com",<br>"network_view": "test"<br>"view": "default.test"<br>}}</td></tr>
<tr><td rowspan="3">Create a host record within a network view</td><td>POST</td><td><wapi_url>/record:host</td><td>{"name":"host.infoblox.com",<br>"ipv4addrs":<br>[{"ipv4addr":"10.10.10.20"}],<br>"view": "default.test"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,network_view&_return_as_object=1" -d '{"name":"host.infoblox.com","ipv4addrs": [{"ipv4addr":"10.10.10.20"}],"view": "default.test"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLjEuY29tLmluZm9ibG94Lmhvc3Q:host.infoblox.com/default.test",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mb2Jsb3guaG9zdC4xMC4xMC4xMC4yMC4:10.10.10.20/host.infoblox.com/default.test",<br>"configure_for_dhcp": false,<br>"host": "host.infoblox.com",<br>"ipv4addr": "10.10.10.20"<br>}],<br>"name": "host.infoblox.com",<br>"network_view": "test",<br>"view": "default.test"<br>}}</td></tr>
<tr><td rowspan="3">Add a network within a network view</td><td>POST</td><td><wapi_url>/network</td><td>{"network":<br>"192.168.1.0/24",<br>"network_view": "test"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network&_return_as_object=1 " -d '{"network": "192.168.1.0/24","network_view": "test"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMQ:192.168.1.0/24/test",<br>"network": "192.168.1.0/24",<br>"network_view": "test"<br>}}</td></tr>
</table>

## VLAN Management

This is only supported with WAPI version 2.10 onwards

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="3">Get VLAN View</td><td>GET</td><td><wapi_url>/vlanview</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/vlanview?_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref": "vlanview/ZG5zLnZsYW5fdmlldyRkZWZhdWx0LjEuNDA5NA:default/1/4094",<br>"end_vlan_id": 4094,<br>"name": "default",<br>"start_vlan_id": 1<br>}]}</td></tr>
<tr><td rowspan="3">Add a VLAN view</td><td>POST</td><td><wapi_url>/vlanview</td><td>{"start_vlan_id": 10,<br>"end_vlan_id": 20,<br>"name": "test"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlanview?_return_fields%2B=start_vlan_id,end_vlan_id,name&_return_as_object=1" -d '{"start_vlan_id": 10,"end_vlan_id": 20,"name": "test"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20",<br>"end_vlan_id": 20,<br>"name": "test",<br>"start_vlan_id": 10<br>}}</td></tr>
<tr><td rowspan="3">Add a VLAN range</td><td>POST</td><td><wapi_url>/vlanrange</td><td>{"start_vlan_id": 15,<br>"end_vlan_id": 20,<br>"name": "testrange",<br>"vlan_view":<br>"vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlanrange?_return_fields%2B=start_vlan_id,end_vlan_id,name&_return_as_object=1" -d '{"start_vlan_id": 15,"end_vlan_id": 20, "name": "testrange","vlan_view": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"vlanrange/ZG5zLnZsYW5fcmFuZ2UkdGVzdC4xMC4yMC50ZXN0cmFuZ2UuMTUuMjA:test/testrange/15/20",<br>"end_vlan_id": 20,<br>"name": "testrange",<br>"start_vlan_id": 15,<br>"vlan_view": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}<br>}}</td></tr>
<tr><td>Add a VLAN</td><td>POST</td><td><wapi_url>/vlan</td><td>{"id": 11,<br>"name": "testvlan",<br>"parent":<br>"vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20",<br>"reserved":true,</td></tr>
</table>

| | | | |
|---|---|---|---|
| | | | "contact":"879220",<br>"department":"ng"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlan?_return_fields%2B=id,name&_return_as_object=1" -d '{"id": 11,"name": "testvlan","parent": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","reserved":true,"contact":"879220","department":"ng"}' | | |
| | {"result":<br>{ "_ref":<br>"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTE:test/testvlan/11",<br>"id": 11,<br>"name": "testvlan",<br>"vlan_view": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}<br>}} | | |
| Next available VLAN | POST | <wapi_url>/vlan | {"id":"func:nextavailablevlanid:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20",<br>"name": "next-vlan",<br>"parent":<br>"vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20",<br>"reserved":true,<br>"contact":"879220",<br>"department":"ng"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlan?_return_fields%2B=id,name&_return_as_object=1" -d '{"id":"func:nextavailablevlanid:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","name": "next-vlan","parent": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","reserved":true,"contact":"879220","department":"ng"}' | | |
| | {"_ref":<br>"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/next-vlan/10",<br>"id": 10,<br>"name": "next-vlan",<br>"parent": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}} | | |
| Create a network with a VLAN | POST | <wapi_url>/network | {"network_view":"default",<br>"network":"61.0.0.0/24",<br>"vlans":<br>[{"vlan":<br>"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/next-vlan/10" }]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=vlans&_return_as_object=1" -d '{"network_view":"default","network":"61.0.0.0/24","vlans": [{"vlan":"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/next-vlan/10" }]}' | | |
| | {"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskNjEuMC4wLjAvMjQvMA:61.0.0.0/24/default",<br>"network": "61.0.0.0/24",<br>"network_view": "default",<br>"vlans": | | |

| | | | |
|---|---|---|---|
| | [{"id": 10,<br>"name": "next-vlan",<br>"vlan":<br>"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/next-vlan/10"<br>}]}} | | |
| Create network with next available VLAN | POST | <wapi_url>/network | {"network_view":"default",<br>"network":"62.0.0.0/24",<br>"vlans":<br>[{"vlan":<br>"func:nextavailablevlan:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20" }]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=vlans&_return_as_object=1" -d '{"network_view":"default","network":"62.0.0.0/24","vlans":[{"vlan":"func:nextavailablevlan:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20" }]}' | | |
| | {"result":<br>{"_ref": "network/ZG5zLm5ldHdvcmskNjEuMC4wLjAvMjQvMA:62.0.0.0/24/default",<br>"network": "62.0.0.0/24",<br>"network_view": "default",<br>"vlans":<br>[{"id": 11,<br>"name": "testvlan",<br>"vlan":<br>"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTE:test/testvlan/11"<br>}]}} | | |

## DHCP related scenarios

### DHCP ranges

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get DHCP ranges | GET | <wapi_url>/range | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/range?_return_as_object=1" | | |
| | {"result":<br>[{"_ref":<br>"range/ZG5zLmRoY3BfcmFuZ2UkMTkyLjE2OC4xLjEwLzE5Mi4xNjguMS4xNS8vLzAv:192.168.1.10/192.168.1.15/default",<br>"end_addr": "192.168.1.15",<br>"network": "192.168.1.0/24",<br>"network_view": "default",<br>"start_addr": "192.168.1.10"<br>}]} | | |
| Add a DHCP range | POST | <wapi_url>/range | {"start_addr": "10.10.10.20",<br>"end_addr": "10.10.10.100",<br>"server_association_type":<br>"MEMBER",<br>"member":{"_struct": |

| | | | |
|---|---|---|---|
| | | | "dhcpmember",<br>"ipv4addr" : "172.26.1.3"}} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/range?_return_fields%2B=start_addr,end_addr,member&_return_as_object=1" -d '{"start_addr": "10.10.10.20","end_addr": "10.10.10.100","server_association_type": "MEMBER","member":{"_struct": "dhcpmember","ipv4addr" : "172.26.1.3"}}' | | |
| | {"result":<br>{"_ref":<br>"range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMjAvMTAuMTAuMTAuMTAwLy8vMC8:10.10.10.20/10.10.10.100/default",<br>"end_addr": "10.10.10.100",<br>"member":<br>{"_struct": "dhcpmember",<br>"ipv4addr": "172.26.1.3",<br>"ipv6addr": null,<br>"name": "member1.localdomain"<br>},<br>"network": "10.10.10.0/24",<br>"network_view": "default",<br>"start_addr": "10.10.10.20"<br>}} | | |
| Add a DHCP range reserved range | POST | <wapi_url>/range | {"start_addr": "172.26.1.20",<br>"end_addr": "172.26.1.100"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/range?_return_fields%2B=start_addr,end_addr,member&_return_as_object=1" -d '{"start_addr": "172.26.1.20","end_addr": "172.26.1.100"}' | | |
| | {"result":<br>{"_ref":<br>"range/ZG5zLmRoY3BfcmFuZ2UkMTcyLjI2LjEuMjAvMTcyLjI2LjEuMTAwLy8vMC8:172.26.1.20/172.26.1.100/default",<br>"end_addr": "172.26.1.100",<br>"network": "172.26.1.0/24",<br>"network_view": "default",<br>"start_addr": "172.26.1.20"<br>}} | | |

In the third scenario in the above example, if you do not assign a member, the range is created as “reserved”.

### Search for a DHCP range by Extensible Attributes

| **Operation** | **REST Method** | **API Call** |
|---|---|---|
| | **Sample cURL Command** | |
| | **Sample Output** | |
| Search ranges by EA (ranges in Bangalore) | GET | <wapi_url>/range?_return_fields%2B=extattrs&*Country:=France |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/range?_return_fields%2B=extattrs&*Location:=Bangalore&_return_as_object=1" | |
| | {"result":<br>[{"_ref":<br>"range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMTUwLzEwLjEwLjEwLjIwMC8vLzEv:10.10.10.150/10.10.10.200/test",<br>"end_addr": "10.10.10.200",<br>"extattrs": {"Location": {"value": "Bangalore"}},<br>"network": "10.10.10.0/24", | |

| | |
|---|---|
| | "network_view": "test",<br>"start_addr": "10.10.10.150"<br>}]} |

## DHCP Leases

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Get DHCP leases | GET | <wapi_url>/lease |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?_return_as_object=1" | |
| | {"result":<br>[{"_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4yMDAvMC8:10.10.10.200/test",<br>"address": "10.10.10.200",<br>"network_view": "test"<br>},<br>{"_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4xOTUvMC8:192.168.1.100/default",<br>"address": "192.168.1.100",<br>"network_view": "default"<br>},<br>……<br>{"_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4xOTEvMC8:10.10.10.191/default",<br>"address": "10.10.10.191",<br>"network_view": "default"<br>}]} | |
| Get DHCP lease by IP Address | GET | <wapi_url>/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_hostname,fingerprint&_max_results=1 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_hostname,fingerprint&_max_results=1&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "lease/ZG5zLmxlYXNlJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1",<br>"binding_state": "ACTIVE",<br>"fingerprint": "Cisco/Linksys SPA series IP Phone",<br>"hardware": "16:55:a4:1b:98:c9"<br>}]} | |
| Get a DHCP lease by hostname | GET | <wapi_url>/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_state,hardware,client_hostname,fingerprint |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_state,hardware,client_hostname,fingerprint&_return_as_object=1" | |
| | {"result":<br>[{"_ref": "lease/ZG5zLmxlYXNlJC8xOTIuMTY4LjQuMy8wLzE3:192.168.4.3/Company%201",<br>"binding_state": "STATIC",<br>"client_hostname": "test",<br>"hardware": "12:34:56:78:91:23"<br>}]} | |
| Get DHCP leases by network | GET | <wapi_url>/lease?network=172.26.1.0/24&_return_fields=binding_state,hardware,client_hostname,fingerprint,network |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?network=172.26.1.0/24&_return_fields=binding_state,hardware,client_hostname,fingerprint,network&_return_as_object=1" | |

| | |
|---|---|
| | {"result":<br>[{"_ref": "lease/ZG5zLmxlYXNlJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1",<br>"binding_state": "ACTIVE",<br>"fingerprint": "Cisco/Linksys SPA series IP Phone",<br>"hardware": "16:55:a4:1b:98:c9",<br>"network": "172.26.1.0/24"<br>},<br>{"_ref": "lease/ZG5zLmxlYXNlJC8xOTIuMTY4LjQuMy8wLzE3:172.26.1.3/Company%201",<br>"binding_state": "STATIC",<br>"client_hostname": "test",<br>"hardware": "12:34:56:78:91:23",<br>"network": "172.26.1.0/24"<br>}]} |

## Grid management related scenarios

For these operations, you would need the *_ref* of the grid.

| Operation | REST Method | API Call |
|---|---|---|
| | Sample cURL Command | |
| | Sample Output | |
| Grid reference | GET | <wapi_url>/grid |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid" | |
| | {"result":<br>[{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox"}]} | |

### Grid Settings

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Configure SNMP | PUT | <wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=snmp_setting | {"snmp_setting":<br>{"queries_community_string":<br>"public",<br>"queries_enable": true,<br>"trap_receivers":<br>[{"address": "1.1.1.1"}],<br>"traps_community_string":<br>"public",<br>"traps_enable": true<br>}} |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=snmp_setting&_return_as_object=1" -d '{"snmp_setting": {"queries_community_string": "public","queries_enable": true, "trap_receivers": [{"address": "1.1.1.1"}],"traps_community_string": "public","traps_enable": true}}' | | |
| | {"result":<br>{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox",<br>"snmp_setting":<br>{"engine_id": ["80:00:1E:63:05:00:50:56:81:4d:38:0a:c4:cd:0c"],<br>"queries_community_string": "public",<br>"queries_enable": true,<br>"snmpv3_queries_enable": false,<br>"snmpv3_traps_enable": false, | | |

<table>
<tr><td></td><td colspan="3">"syscontact": [],<br>"sysdescr": [],<br>"syslocation": [],<br>"sysname": [],<br>"trap_receivers": [{"address": "1.1.1.1"}],<br>"traps_community_string": "public",<br>"traps_enable": true<br>}}}</td></tr>
<tr><td rowspan="3">Configure NTP</td><td>PUT</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=ntp_setting</td><td>{"ntp_setting":<br>{"enable_ntp": true,<br>"ntp_servers":<br>[{"address":"10.224.0.10"}]<br>}}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=ntp_setting&_return_as_object=1" -d '{"ntp_setting": {"enable_ntp": true,"ntp_servers": [{"address":"10.224.0.10"}]}}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox",<br>"ntp_setting":<br>{"enable_ntp": true,<br>"ntp_acl":<br>{"ac_list": [],<br>"acl_type": "NONE",<br>"service": "TIME"},<br>"ntp_keys": [],<br>"ntp_kod": false,<br>"ntp_servers":<br>[{"address": "10.224.0.10",<br>"burst": true,<br>"enable_authentication": false,<br>"iburst": true,<br>"preferred": false}]}<br>}}</td></tr>
<tr><td rowspan="3">Configure DNS Resolver Setting</td><td>PUT</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=dns_resolver_setting</td><td>{"dns_resolver_setting" :<br>{"resolvers":["192.168.8.52"]}<br>}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=dns_resolver_setting&_return_as_object=1" -d '{"dns_resolver_setting" : {"resolvers":["192.168.8.52"]}}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox",<br>"dns_resolver_setting":<br>{"resolvers": ["192.168.8.52"],<br>"search_domains": []<br>}<br>}}</td></tr>
</table>

## Grid DNS properties

The *grid:dns* 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.

The Grid Member DNS (*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. Remember to set the corresponding *use* flag to true. The value of the field will only take effect when its use flag is true. Otherwise, Grid service configurations are inherited by all members.

In the following examples, *max_cached_lifetime* indicates the maximum time (in seconds) a DNS response can be stored in the hardware acceleration cache.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="3">Get grid DNS properties</td><td>GET</td><td><wapi_url>/grid:dns?_return_fields%2B=max_cached_lifetime</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid:dns?_return_fields%2B=max_cached_lifetime&_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",<br>"max_cached_lifetime": 86400<br>}]}</td></tr>
<tr><td rowspan="3">Modify grid DNS properties (max_cached_lifetime) at the Grid level</td><td>PUT</td><td><wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_return_fields%2B=max_cached_lifetime</td><td>{"max_cached_lifetime":60000}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_return_fields%2B=max_cached_lifetime&_return_as_object=1" -d '{"max_cached_lifetime":60000}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",<br>"max_cached_lifetime": 60000<br>}}</td></tr>
<tr><td rowspan="3">Get member DNS properties</td><td>GET</td><td><wapi_url>/member:dns?_return_fields%2B=max_cached_lifetime</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member:dns?_return_fields%2B=max_cached_lifetime&_return_as_object=1"</td></tr>
<tr><td colspan="3">{"result":<br>[{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain",<br>"host_name": "infoblox.localdomain",<br>"ipv4addr": "172.26.1.2",<br>"max_cached_lifetime": 86400<br>},<br>{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain",<br>"host_name": "member1.localdomain",<br>"ipv4addr": "172.26.1.3",<br>"max_cached_lifetime": 86400<br>}]}</td></tr>
</table>

| | | | |
|---|---|---|---|
| Modify DNS properties (max_cached_lifetime) at the member level | PUT | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain?_return_fields%2B=max_cached_lifetime | {"use_max_cached_lifetime": true, "max_cached_lifetime":80000} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain?_return_fields%2B=max_cached_lifetime&_return_as_object=1" -d '{"use_max_cached_lifetime": true,"max_cached_lifetime":80000}' | | |
| | {"result": [{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain", "host_name": "member1.localdomain", "ipv4addr": "172.26.1.3", "max_cached_lifetime": 80000 }]} | | |
| Update DNS properties with additional IP list | PUT | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain?_return_fields%2B=additional_ip_list | {"additional_ip_list": ["32.32.32.32"]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain?_return_fields%2B=additional_ip_list&_return_as_object=1" -d '{"additional_ip_list": ["32.32.32.32"]}' | | |
| | {"result": [{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain", "host_name": "infoblox.localdomain", "ipv4addr": "172.26.1.3", "additional_ip_list": ["32.32.32.32"] }]} | | |

## Members

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get members | GET | <wapi_url>/member | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member?_return_as_object=1" | | |
| | {"result": [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain", "config_addr_type": "IPV4", "host_name": "infoblox.localdomain", "platform": "VNIOS", "service_type_configuration": "ALL_V4" }, {"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQx:member1.localdomain", "config_addr_type": "IPV4", "host_name": "member1.localdomain", "platform": "VNIOS", "service_type_configuration": "ALL_V4" }]} | | |
| Get details of a member based on its name | GET | <wapi_url>/member?host_name=infoblox.localdomain | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member?host_name=infoblox.localdomain&_return_as_object=1" | | |

<table>
<tr><td></td><td>{"result":<br>[{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"platform": "VNIOS",<br>"service_type_configuration": "ALL_V4"<br>}]}</td></tr>
<tr><td rowspan="3">Get details of a member based on its IPv4 address</td><td>GET</td><td><wapi_url>/member?ipv4_address=172.26.1.2</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member?ipv4_address=172.26.1.2&_return_fields%2B=vip_setting&_return_as_object=1"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"platform": "VNIOS",<br>"service_type_configuration": "ALL_V4",<br>"vip_setting":<br>{"address": "172.26.1.2",<br>"dscp": 0,<br>"gateway": "172.26.1.1",<br>"primary": true,<br>"subnet_mask": "255.255.255.0",<br>"use_dscp": false<br>}}]}</td></tr>
<tr><td rowspan="3">Get node information for all members</td><td>GET</td><td><wapi_url>/member?_return_fields%2B=node_info</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member?_return_fields%2B=node_info&_return_as_object=1"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"node_info":<br>[{"ha_status": "NOT_CONFIGURED",<br>"hwid": "42017879A14D4EE9E59F6ABEC0E8F729",<br>"hwmodel": "",<br>"hwplatform": "VMWARE",<br>"hwtype": "IB-V815",<br>"lan2_physical_setting": {"auto_port_setting_enabled": true},<br>"lan_ha_port_setting":<br>{"ha_port_setting":<br>{"auto_port_setting_enabled": true,<br>"speed": "10"},<br>"lan_port_setting": {"auto_port_setting_enabled": true}<br>},<br>"mgmt_physical_setting": {"auto_port_setting_enabled": true},<br>"paid_nios": false,<br>"physical_oid": "0",<br>"service_status":<br>[{"description": "Running",<br>"service": "NODE_STATUS",<br>"status": "WORKING"</td></tr>
</table>

<table>
<tr><td></td><td>},<br>{"description": "2% - Primary drive usage is OK.",<br>"service": "DISK_USAGE",<br>"status": "WORKING"<br>},<br>{"description": "172.26.1.2",<br>"service": "ENET_LAN",<br>"status": "WORKING"<br>},<br>{"description": "7% - Database capacity usage is OK.",<br>"service": "DB_OBJECT",<br>"status": "WORKING"<br>},<br>{"service": "NTP_SYNC",<br>"status": "INACTIVE"<br>},<br>…..<br>{"service": "VPN_CERT",<br>"status": "WORKING"<br>}],<br>"v6_mgmt_network_setting":<br>{"auto_router_config_enabled": false,<br>"enabled": false<br>}}],<br>.....}</td></tr>
<tr><td rowspan="3">Get Service Status for all members</td><td>GET</td><td><wapi_url>/member?_return_fields%2B=service_status</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member?_return_fields%2B=service_status&_return_as_object=1"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"platform": "VNIOS",<br>"service_status":<br>[{"description": "DHCP Service is working",<br>"service": "DHCP",<br>"status": "WORKING"<br>},<br>{"description": "DNS Service is working",<br>"service": "DNS",<br>"status": "WORKING"<br>},<br>{"description": "NTP Service is working",<br>"service": "NTP",<br>"status": "WORKING"<br>},<br>{"description": "Hard Disk: 0% - TFTP Service is inactive",<br>"service": "TFTP",<br>"status": "INACTIVE"<br>},<br>{"description": "Hard Disk: 0% - HTTP File Dist Service is inactive",<br>"service": "HTTP_FILE_DIST",<br>"status": "INACTIVE"<br>},</td></tr>
</table>

<table>
<tr><td></td><td colspan="3">{"description": "Hard Disk: 0% - FTP Service is inactive",<br>"service": "FTP",<br>"status": "INACTIVE"<br>},<br>{"description": "CPU: 100%, Memory: 0%, Hard Disk: 0%",<br>"service": "BLOXTOOLS",<br>"status": "INACTIVE"<br>},<br>{"description": "Captive Portal Service is inactive",<br>"service": "CAPTIVE_PORTAL",<br>"status": "INACTIVE"<br>},<br>{"service": "HSM",<br>"status": "UNKNOWN"<br>}],<br>"service_type_configuration": "ALL_V4"<br>},<br>…<br>]}</td></tr>
<tr><td rowspan="3">Modify the name of a member</td><td>PUT</td><td><wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain</td><td>{"host_name":"nios.test.com"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_return_fields%2B=host_name&_return_as_object=1" -d '{"host_name":"nios.test.com"}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:nios.test.com",<br>"config_addr_type": "IPV4",<br>"host_name": "nios.test.com",<br>"platform": "VNIOS",<br>"service_type_configuration": "ALL_V4"<br>}}</td></tr>
<tr><td rowspan="3">Add static routes to a member</td><td>PUT</td><td><wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain</td><td>{"static_routes":<br>[{"address":"10.10.10.0",<br>"gateway":"172.26.1.1",<br>"subnet_mask":<br>"255.255.255.0"}]}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_return_fields%2B=static_routes&_return_as_object=1" -d '{ "static_routes":[{"address": "10.10.10.0","gateway": "172.26.1.1","subnet_mask": "255.255.255.0"}]}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"platform": "VNIOS",<br>"service_type_configuration": "ALL_V4",<br>"static_routes":<br>[{"address": "10.10.10.0",<br>"gateway": "172.26.1.1",<br>"subnet_mask": "255.255.255.0"<br>}]}}</td></tr>
<tr><td>Delete static routes from a member</td><td>PUT</td><td><wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain</td><td>{"static_routes": []}</td></tr>
</table>

| | | | |
|---|---|---|---|
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_return_fields%2B=static_routes&_return_as_object=1" -d '{ "static_routes":[]}' | | |
| | {"result":<br>{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",<br>"config_addr_type": "IPV4",<br>"host_name": "infoblox.localdomain",<br>"platform": "VNIOS",<br>"service_type_configuration": "ALL_V4",<br>"static_routes": []<br>}} | | |
| Enable DNS Service on a member | PUT | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:member1.localdomain | {"enable_dns":true} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:member1.localdomain?_return_as_object=1" -d '{"enable_dns":true}' | | |
| | {"result": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:member1.localdomain"} | | |
| Enable DHCP Service on a member | PUT | <wapi_url>/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain | {"enable_dhcp":true} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain?_return_as_object=1" -d '{"enable_dhcp":true}' | | |
| | {"result":<br>"member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain"} | | |
| Add a member to the grid | POST | <wapi_url>/member | {"config_addr_type": "IPV4",<br>"platform": "VNIOS",<br>"host_name":"autojoin01.localdomain",<br>"vip_setting":<br>{"subnet_mask": "255.255.255.0",<br>"address": "192.128.2.7",<br>"gateway":"192.128.2.1"}} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"autojoin01.localdomain","vip_setting": {"subnet_mask": "255.255.255.0","address": "192.128.2.7","gateway":"192.128.2.1"}}' | | |
| | {"result": "member/b25lLnZpcnR1YWxfbm9kZSQx:autojoin01.localdomain"} | | |
| Add a HA member to the grid | POST | <wapi_url>/member | {"config_addr_type": "IPV4",<br>"platform": "VNIOS",<br>"host_name":"member-ha.localdomain",<br>"enable_ha":true,<br>"router_id":150,<br>"vip_setting":<br>{"subnet_mask":<br>"255.255.255.0",<br>"address": "192.128.2.100",<br>"gateway":"192.128.2.1"},<br>"node_info": |

| | | | |
|---|---|---|---|
| | | | [{"lan_ha_port_setting": {"ha_ip_address":"192.128.2.70", "mgmt_lan":"192.128.2.80"}}, {"lan_ha_port_setting": {"ha_ip_address":"192.128.2.71", "mgmt_lan":"192.128.2.81"}}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"member-ha.localdomain","enable_ha":true,"router_id":150,"vip_setting": {"subnet_mask": "255.255.255.0","address": "192.128.2.100","gateway":"192.128.2.1"},"node_info":[{"lan_ha_port_setting":{"ha_ip_address":"192.128.2.70","mgmt_lan":"192.128.2.80"}},{"lan_ha_port_setting":{"ha_ip_address":"192.128.2.71","mgmt_lan":"192.128.2.81"}}]}' | | |
| | {"result": "member/b25LnW9vjR1ZUxfbm9aUIsx:member-ha.localdomain"} | | |
| Add a member with anycast configuration | POST | <wapi_url>/member | {"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"member-anycast.localdomain", "vip_setting": {"subnet_mask": "255.255.255.0", "address": "192.128.2.100", "gateway":"192.128.2.1"}, "additional_ip_list": [{"anycast":true, "enable_bgp":true, "enable_ospf":true, "interface":"LOOPBACK", "ipv4_network_setting": {"subnet_mask": "255.255.255.255", "address": "192.128.2.10", "gateway":"192.128.2.1"}}], "bgp_as": [{"as":100, "link_detect":true, "neighbors": [{"authentication_mode":"NONE", "interface":"LAN_HA", "neighbor_ip":"192.168.2.102", "remote_as":102, "enable_bfd":true}]}], "ospf_list": [{"area_id":"100", "authentication_type":"NONE", "auto_calc_cost_enabled":true, "interface":"LAN_HA", "is_ipv4":true}]} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"member-anycast.localdomain","vip_setting": {"subnet_mask": "255.255.255.0","address": "192.128.2.100","gateway":"192.128.2.1"},"additional_ip_list":[{"anycast":true,"enable_bgp":true,"enable_ospf":true,"interface":"LOOPBACK","ipv4_network_setting":{"subnet_mask": | | |

| | | | |
|---|---|---|---|
| | "255.255.255.255","address": "192.128.2.10","gateway":"192.128.2.1"}}],"bgp_as":[{"as":100,"link_detect":true,"neighbors":[{"authentication_mode":"NONE","interface":"LAN_HA","neighbor_ip":"192.168.2.102","remote_as":102,"enable_bfd":true}]}],"ospf_list":[{"area_id":"100","authentication_type":"NONE","auto_calc_cost_enabled":true,"interface":"LAN_HA","is_ipv4":true}]}' | | |
| | {"result": "member/b25lLnZpcnR1YWxfbm9kZSQz:member-anycast.localdomain"} | | |
| Initiate member join | POST | <member_wapi_url>/grid?_function=join | {"grid_name":"Infoblox", "master":"*<grid master ip address>*", "shared_secret":"test"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://member-master/wapi/v2.12/grid?_function=join&_return_as_object=1" -d '{"grid_name":"Infoblox", "master":"grid-master", "shared_secret":"test"}' | | |

## Clear DNS Cache

| Operation | REST Method | API Call |
|---|---|---|
| | **Sample cURL Command** | |
| | **Sample Output** | |
| Get member DNS reference | GET | <wapi_url>/member:dns |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/member:dns?_return_as_object=1" | |
| | {"result": [{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain", "host_name": "infoblox.localdomain", "ipv4addr": "10.196.205.12"}, {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain", "host_name": "infoblox_member1.localdomain", "ipv4addr": "10.196.205.13"}, {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQ2:infoblox-cpmember.localdomain", "host_name": "infoblox-cpmember.localdomain", "ipv4addr": "10.196.205.14"}, {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQ4:testingwapi.localdomain", "host_name": "testingwapi.localdomain", "ipv4addr": "192.128.2.7"}, {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQxMA:nios.test.com", "host_name": "nios.test.com", "ipv4addr": "10.196.205.100"}]} | |
| Clear DNS cache of a member | POST | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache" | |
| | {} | |
| Clear DNS cache of a member for a specific DNS view | POST | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache&view=Internal%20DNS |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache&view=Internal%20DNS" | |

| | | |
|---|---|---|
| | {} | |
| Clear DNS cache of a member for a specific FQDN and all the records within it | POST | <wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache&domain=test.com&clear_full_tree=true |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomain?_function=clear_dns_cache&domain=test.com&clear_full_tree=true" | |
| | {} | |

## Services

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| Get grid service status | POST | <wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=requestrestartservicestatus | {"service_option": "ALL"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=requestrestartservicestatus" -d '{"service_option": "ALL"}' | | |
| Restart the services | POST | <wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=restartservices | {"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=restartservices" -d '{"member_order" : "SIMULTANEOUSLY","service_option": "ALL"}' | | |
| Restart the services when no restart action is required | POST | <wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=restartservices | {"member_order" : "SIMULTANEOUSLY", "restart_option":"FORCE_RESTART", "service_option": "ALL"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=restartservices" -d '{"member_order" : "SIMULTANEOUSLY","restart_option":"FORCE_RESTART","service_option": "ALL"}' | | |
| Get the pending changes | GET | <wapi_url>/grid:servicerestart:request:changedobject | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid:servicerestart:request:changedobject" | | |

In the above examples, in the *service_option* you can replace *ALL* with *DNS* or *DHCP*

## Discovery

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get the pre-built discovery tasks on the grid | GET | <wapi_url>/discoverytask | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/discoverytask?_return_as_object=1" | | |
| | {"result": [{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current", "discovery_task_oid": "current", "member_name": "infoblox.localdomain"}, | | |

| | | | |
|---|---|---|---|
| | {"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled",<br>"discovery_task_oid": "scheduled",<br>"member_name": "infoblox.localdomain"<br>}]} | | |
| Modify the scheduled discovery task | PUT | <wapi_url>/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled | '{"mode":"ICMP",<br>"network_view":"default",<br>"networks":<br>["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default"],<br>"ping_retries": 5,<br>"ping_timeout": 1500,<br>"scheduled_run":<br>{"frequency": "DAILY",<br>"hour_of_day": 6,<br>"minutes_past_hour": 0,<br>"repeat": "RECUR"<br>}}' |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled" -d '{"mode":"ICMP","network_view":"default","networks":["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default","network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default","network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default"],"ping_retries": 5,"ping_timeout": 1500,"scheduled_run": {"frequency": "DAILY","hour_of_day": 6,"minutes_past_hour": 0,"repeat": "RECUR"}}' | | |
| | discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled | | |
| Modify the current discovery task | PUT | <wapi_url>/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current | '{"mode":"ICMP",<br>"network_view":"default",<br>"networks":<br>["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default"],<br>"ping_retries": 5,<br>"ping_timeout": 1500}' |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current" -d '{"mode":"ICMP","network_view":"default","networks":["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default","network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default","network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default"],"ping_retries": 5,"ping_timeout": 1500}' | | |
| | discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current | | |

| | | | |
|---|---|---|---|
| Start the current discovery task | POST | <wapi_url>/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current?_function=network_discover_control | {"action":"START"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current?_function=network_discovery_control" -d '{"action":"START"}' | | |
| Fetch the discovery task to get the state | GET | <wapi_url>/discoverytask?_return_fields%2B=status,state | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/discoverytask?_return_as_object=1&_return_fields%2B=status,state" | | |
| | {"result":<br>[{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current",<br>"discovery_task_oid": "current",<br>"member_name": "infoblox.localdomain",<br>"state": "COMPLETE",<br>"status": "Current status: Ended\nDiscovery was started by administrator 'admin'\n\n Discovered: 8\n Pending processing: 0\n Managed: 0\n Unmanaged: 8\n Conflicts: 0\n\n Existing objects updated with discovery data: 0"},<br>{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled",<br>"discovery_task_oid": "scheduled",<br>"member_name": "infoblox.localdomain",<br>"state": "COMPLETE",<br>"status": "Current status: Ended\n\n Discovered: 0\n Pending processing: 0\n Managed: 0\n Unmanaged: 0\n Conflicts: 0\n\n Existing objects updated with discovery data: 0"<br>}]} | | |

## vDiscovery

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get vDiscovery tasks | GET | <wapi_url>/vdiscoverytask | |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/vdiscoverytask?_return_as_object=1" | | |
| | {"result":<br>[{"_ref":<br>"vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBenVyZSB2RGlzY292ZXJ5:Azure%20vDiscovery",<br>"name": "Azure vDiscovery",<br>"state": "WARNING"<br>},<br>{"_ref":<br>"vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBV1MgdkRpc2NvdmVyeQ:AWS%20vDiscovery",<br>"name": "AWS vDiscovery",<br>"state": "WARNING"<br>},<br>{"_ref":<br>"vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRWTXdhcmUgdkRpc2NvdmVyeQ:VMware%20vDiscovery",<br>"name": "VMware vDiscovery",<br>"state": "WARNING" | | |

<table>
<tr><td></td><td colspan="3">},<br>{"_ref":<br>"vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRPcGVuc3RhY2sgdkRpc2NvdmVyeQ:Openstack%20vDiscovery",<br>"name": "Openstack vDiscovery",<br>"state": "WARNING"<br>}]}</td></tr>
<tr><td rowspan="3">Create a vDiscovery Task to discover the AWS environment</td><td>POST</td><td><wapi_url>/vdiscoverytask</td><td>'{"name": "ec2.eu-west-1",<br>"driver_type": "AWS",<br>"fqdn_or_ip":<br>"ec2.eu-west-1.amazonaws.com",<br>"username": "test",<br>"password": "test",<br>"member": "infoblox.localdomain",<br>"port": 443,<br>"protocol": "HTTPS",<br>"auto_consolidate_cloud_ea": true,<br>"auto_consolidate_managed_tenant": true,<br>"auto_consolidate_managed_vm": true,<br>"merge_data": true,<br>"private_network_view": "default",<br>"private_network_view_mapping_policy": "DIRECT",<br>"public_network_view": "default",<br>"public_network_view_mapping_policy": "DIRECT",<br>"update_metadata": true,<br>"scheduled_run":<br>{"_struct":"setting:schedule",<br>"frequency": "HOURLY",<br>"repeat": "RECUR",<br>"minutes_past_hour": 1,<br>"disable": true}}'</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vdiscoverytask?_return_fields=name,driver_type&_return_as_object=1" -d '{"name": "ec2.eu-west-1", "driver_type": "AWS", "fqdn_or_ip": "ec2.eu-west-1.amazonaws.com", "username": "test", "password": "test", "member": "infoblox.localdomain", "port": 443, "protocol": "HTTPS", "auto_consolidate_cloud_ea": true, "auto_consolidate_managed_tenant": true, "auto_consolidate_managed_vm": true, "merge_data": true, "private_network_view": "default", "private_network_view_mapping_policy": "DIRECT", "public_network_view": "default", "public_network_view_mapping_policy": "DIRECT", "update_metadata": true, "scheduled_run": {"_struct":"setting:schedule","frequency": "HOURLY", "repeat": "RECUR", "minutes_past_hour": 1, "disable": true}}'</td></tr>
<tr><td colspan="3">{"result":<br>{"_ref":<br>"vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlYzIuZXUtd2VzdC0x:ec2.eu-west-1",<br>"driver_type": "AWS",<br>"name": "ec2.eu-west-1"<br>}}</td></tr>
<tr><td>Start a vDiscovery task</td><td>POST</td><td><wapi_url>/vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlYzIuZXUtd2VzdC0</td><td>{"action":"START"}</td></tr>
</table>

| | | | |
|---|---|---|---|
| | | x:ec2.eu-west-1?_function=vdiscover_control | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlYzIuZXUtd2VzdC0x:ec2.eu-west-1?_function=vdiscovery_control" -d '{"action":"START"}' | | |

## Permissions

| Operation | REST Method | API Call |
|---|---|---|
| | | Sample cURL Command |
| | | Sample Output |
| Get permissions | GET | <wapi_url>/permission |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/permission?_return_as_object=1" | |
| | {"result": [{"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC4uLi4uY29tLmluZm9ibG94Lm9uZS5yb2xlJEROUyBBZG1pbi4:DNS%20Admin/WRITE", "permission": "WRITE", "resource_type": "VIEW", "role": "DNS Admin" }, {"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC5zcmdfcm9vdC4uLmNvbS5pbmZvYmxveC5vbmUucm9sZSRETlMgQWRtaW4u:DNS%20Admin/WRITE", "permission": "WRITE", "resource_type": "SHARED_RECORD_GROUP", "role": "DNS Admin" }, …. {"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkR3JpZCBBZG1pbi5kbnMubXNfYWRfc2l0ZXNfZG9tYWlu:Grid%20Admin/WRITE", "permission": "WRITE", "resource_type": "MS_ADSITES_DOMAIN", "role": "Grid Admin" }]} | |
| Get permissions for a role (DHCP Admin) | GET | <wapi_url>/permission?role=DHCP%20Admin |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/permission?role=DHCP%20Admin&_return_as_object=1" | |
| | {"result": [{"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%20Admin/WRITE", "permission": "WRITE", "resource_type": "NETWORK_VIEW", "role": "DHCP Admin" }, {"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5kaGNwX21hY19ma | |

<table>
<tr><td></td><td>Wx0ZXJfcGFyZW50JDAuLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%20Admin/WRITE",<br>"permission": "WRITE",<br>"resource_type": "DHCP_MAC_FILTER",<br>"role": "DHCP Admin"<br>},<br>…..<br>{"_ref":<br>"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5yb2xlJERIQ1AgQWRtaW4u:DHCP%20Admin/WRITE",<br>"permission": "WRITE",<br>"resource_type": "GRID_DHCP_PROPERTIES",<br>"role": "DHCP Admin"<br>}]}</td></tr>
<tr><td>Get permissions for a group</td><td>GET <wapi_url>/permission?group=cloud-api-only<br>curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/permission?group=cloud-api-only"<br>{"result":<br>[{"_ref":<br>"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5hZG1pbl9ncm91cCQuY2xvdWQtYXBpLW9ubHku:cloud-api-only/WRITE",<br>"group": "cloud-api-only",<br>"permission": "WRITE",<br>"resource_type": "GRID_DHCP_PROPERTIES"<br>},<br>{"_ref":<br>"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy50ZW5hbnRfcGFyZW50JGFsbC4uLmNvbS5pbmZvYmxveC5vbmUuYWRtaW5fZ3JvdXAkLmNsb3VkLWFwaS1vbmx5Lg:cloud-api-only/WRITE",<br>"group": "cloud-api-only",<br>"permission": "WRITE",<br>"resource_type": "TENANT"<br>},<br>{"_ref":<br>"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",<br>"group": "cloud-api-only",<br>"permission": "WRITE",<br>"resource_type": "NETWORK_VIEW"<br>},<br>{"_ref":<br>"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",<br>"group": "cloud-api-only",<br>"permission": "WRITE",<br>"resource_type": "GRID_DNS_PROPERTIES"<br>}]}</td></tr>
</table>

## Export a CSV file

When you initiate a CSV Export, you will get a URL that can be used to download the file directly, and a token for the download session. After downloading the CSV file, remember to remove the stored file using the token.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Initiate a CSV export | POST | <wapi_url>/fileop?_function=csv_export | {"_object": "record:host"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=csv_export" -d '{"_object": "record:host"}' | | |
| | {"token": "eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\nBg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvrmyN8x\n0qRn4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVW1pnIyjyVUBGvFnGgUSPZ3OtPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK/XAuCublgc13Z53Hyf1nuhA/yqiN\ntIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2gYHEiPKmC0KO3kOv/dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n", "url": "https://grid-master.2/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" } | | |
| Download the CSV file | GET | <url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv | |
| | curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" -o "Hostrecords.csv" | | |
| | #Hostrecords.csv file is saved in the present working directory# | | |
| Remove the stored file using the token | POST | <wapi_url>/fileop?_function=downloadcomplete | {"token": "eJylUM..o="} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\nBg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvrmyN8x\n0qRn4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVW1pnIyjyVUBGvFnGgUSPZ3OtPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK/XAuCublgc13Z53Hyf1nuhA/yqiN\ntIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2gYHEiPKmC0KO3kOv/dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n"}' | | |

Please note that while downloading the CSV file (in the second step above), the *Content-Type* in the header will be *application/force-download.*

## Export results of a WAPI call

You can cache the results by exporting the results of a WAPI call and save the data to disk.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Export results of a WAPI call | POST | <wapi_url>/fileop?_function=read | {"_encoding":"JSON", "_filename":"allhosts.info.com.json","_object":"record:host", "_return_fields":"name,extattrs", "zone":"info.com"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=read" -d '{"_encoding":"JSON","_filename":"allhosts.info.com.json","_object":"record:host","_return_fields":"name,extattrs","zone":"info.com"}' | | |

The file will be in a folder called 'wapi_output' in the HTTP file distribution.

### Get Lease History files

When you initiate a lease history export, you will get a URL that can be used to download the file directly, and a token for the download session.  After downloading the lease history file, remember to remove the stored file using the token.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="3">Initiate a CSV export</td><td>POST</td><td><wapi_url>/fileop?_function=getleasehistoryfiles</td><td>{"member": "m1.infoblox.com", "start_time": "1514764800", "end_time" :"1533686400"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=getleasehistoryfiles" -d '{"member": "m1.infoblox.com", "start_time": "1514764800", "end_time" :"1533686400"}'</td></tr>
<tr><td colspan="3">{"token":<br>"eJyIUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\nBg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvrmyN8x\n0qRn4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVW1pnIyjyVUBGvFnGgUSPZ3OtPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK/XAuCublgc13Z53Hyf1nuhA/yqN\ntIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2gYHEiPKmC0KO3kOv/dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n",<br>"url":<br>"https://192.168.1.2/http_direct_file_io/req_id-DOWNLOAD-0202150809630902/dhcpLeaseHistory.csv.gz"<br>}</td></tr>
<tr><td rowspan="3">Download the CSV file</td><td>GET</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-0202150809630902/dhcpLeaseHistory.csv.gz</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0202150809630902/dhcpLeaseHistory.csv.gz" -o "dhcpLeaseHistory.csv.gz"</td></tr>
<tr><td colspan="3">#dhcpLeaseHistory.csv.gz file is saved in the present working directory#</td></tr>
<tr><td rowspan="2">Remove the stored file using the token</td><td>POST</td><td><wapi_url>/fileop?_function=downloadcomplete</td><td>{"token": "eJyIUM..o="}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" :<br>"eJyIUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\nBg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvrmyN8x\n0qRn4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVW1pnIyjyVUBGvFnGgUSPZ3OtPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK/XAuCublgc13Z53Hyf1nuhA/yqN\ntIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2gYHEiPKmC0KO3kOv/dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n"}'</td></tr>
</table>

Please note that while downloading the lease history file (in the second step above), the *Content-Type* in the header will be *application/force-download.*

### Import a file (Certificate)

When you initiate a file import, you will get a URL to which you can upload the file to. Once you have uploaded the file, signal to the appliance to perform an action on the uploaded file. In this example, we will upload a certificate.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><td colspan="3">Sample cURL Command</td></tr>
<tr><td colspan="3">Sample Output</td></tr>
<tr><td rowspan="2">Initiate file upload</td><td>POST</td><td><wapi_url>/fileop?_function=uploadinit</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadinit"<br><br>{"token": "eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n", "url": "https://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1001/import_file" }</td></tr>
<tr><td rowspan="2">Upload contents of a CA certificate</td><td>POST</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/import_file</td><td>file=@ca.cert.pem</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type:multipart-formdata' "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" -F file=@ca.cert.pem</td></tr>
<tr><td rowspan="2">Upload the CA Certificate</td><td>POST</td><td><wapi_url>/fileop?_function=uploadcertificate</td><td>{"certificate_usage":"EAP_CA", "member": "infoblox.localdomain", "token":"eJydk..=="}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadcertificate" -d '{"certificate_usage":"EAP_CA","member": "infoblox.localdomain","token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n"}'</td></tr>
</table>

Please note that while uploading the file (in the second step above), the Content-Type in the header will be *multipart/form-data*

## Import a CSV file

When you need to update or create multiple records, you can store the data as fields in a CSV file and import it at once. This will be faster in comparison with updating or creating each object with a separate API call. This example assumes that the values and fields in your CSV file are comma-separated. For more information on the CSV file, you can refer to the CSV Import Reference section under Tech Docs in the Support Site.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Initiate file upload | POST | <wapi_url>/fileop?_function=uploadinit | |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadinit" | | |
| | {"token": "eJydUE1PwzAMvfuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0VvT4D\nX9KaEP0ko/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJGI30RDJIIIiGcEtYa7cCk4zfXHkrxhp\n1DNwFexFVVRNVddVk4l6tdyUGwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0XsadBINvf6A0kt\n3l6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKI20ioy59Qt\n2fz+8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdknFTxE/t\nA1mTsA1jXfYFNGOU6g==\n", "url": "https://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1002/import_file" } | | |
| Upload contents of the CSV file | POST | <url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1002/import_file | file=@HostRecords.csv |
| | curl -k -u admin:infoblox -H 'content-type:multipart/form-data' "https://grid-master/http_direct_file_io/req_id-UPLOAD-1002/import_file" -F file=@HostRecords.csv | | |
| Upload the CSV file | POST | <wapi_url>/fileop?_function=csv_import | {"action":"START", "on_error":"CONTINUE", "update_method":"MERGE", "token":"eJydU..=="} |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=csv_import" -d '{"action":"START","on_error":"CONTINUE","update_method":"MERGE","token":"eJydUE1PwzAMvfuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0VvT4D\nX9KaEP0ko/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJGI30RDJIIIiGcEtYa7cCk4zfXHkrxhp\n1DNwFexFVVRNVddVk4l6tdyUGwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0XsadBINvf6A0kt\n3l6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKI20ioy59Qt\n2fz+8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdknFTxE/t\nA1mTsA1jXfYFNGOU6g==\n"}' | | |
| | {"csv_import_task": {"_ref": "csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5", "admin_name": "admin", "file_name": "import_file", "file_size": 215, "import_id": 5, "lines_failed": 0, "lines_processed": 0, "lines_warning": 0, "on_error": "CONTINUE", "operation": "UPDATE", "separator": "COMMA", | | |

| | |
|---|---|
| | "start_time": 1537512228,<br>"status": "PENDING",<br>"update_method": "MERGE"<br>}} |
| Verify the status of the CSV import task | GET <wapi_url>/csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5" |
| | {"_ref": "csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5",<br>"admin_name": "admin",<br>"end_time": 1537512233,<br>"file_name": "import_file",<br>"file_size": 215,<br>"import_id": 5,<br>"lines_failed": 0,<br>"lines_processed": 3,<br>"lines_warning": 0,<br>"on_error": "CONTINUE",<br>"operation": "UPDATE",<br>"separator": "COMMA",<br>"start_time": 1537512233,<br>"status": "COMPLETED",<br>"update_method": "MERGE"<br>} |

Please note that while uploading the file (in the second step above), the Content-Type in the header will be *multipart/form-data*.

### Generate a certificate signing request (CSR)

When you initiate a CSR, you will get a URL that can be used to download the file directly, and a token for the download session. After downloading the CSR file, remember to remove the stored file using the token.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Initiate a CSV export | POST | <wapi_url>/fileop?_function=generatecsr | {"certificate_usage" : "ADMIN",<br>"algorithm":"SHA-512",<br>"email" :<br>"admin@api-testing.com",<br>"cn" : "API-Testing",<br>"country" : "US",<br>"state" : "California",<br>"locality" : "Santa Clara",<br>"org" : "Infoblox",<br>"org_unit" : "TME",<br>"member":<br>"infoblox.localdomain"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=generatecsr" -d '{"_object": "record:host"}' | | |
| | {"token":<br>"eJyljrEKwjAURX+lZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCI/24z6Orgei733PskeB+MeyhvLJI8\ngnQ<br>2nfNUCEEIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brw7mhMr0zOFFGR2X9b7a1EUZ\n<br>JzzhIHkGQkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXlttfhFimLXaG2y9UnCIxdfe+aDpm3w/83\njA7<br>OXxXyegM9j1mw\n", | | |

| | | | |
|---|---|---|---|
| | "url": "https://10.196.205.12/http_direct_file_io/req_id-DOWNLOAD-0202172915716757/cert.pem"} | | |
| Download the CSV file | GET | <url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/rreq_id-DOWNLOAD-0202172915716757/cert.pem | |
| | curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0202172915716757/cert.pem" -o "cert.pem" | | |
| | #cert.pem file is saved in the present working directory# | | |
| Remove the stored file using the token | POST | <wapi_url>/fileop?_function=downloadcomplete | {"token": "eJyl..w\n"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJyljrEKwjAURX+lZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCI/24z6Orgei733PskeB+MeyhvLJI8\ngnQ2nfNUCEEIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brw7mhMr0zOFFGR2X9b7a1EUZ\nJzzhIHkGQkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXlttfhFimLXaG2y9UnCIxdfe+aDpm3w/83\njA7OXxXyegM9j1mw\n"}' | | |

Please note that while downloading the CSV file (in the second step above), the *Content-Type* in the header will be *application/force-download.*

### Grid database backup and restore

When you initiate a backup, you will get a URL that can be used to download the file directly, and a token for the download session. After downloading the backup file, remember to remove the stored file using the token.

| **Operation** | **REST Method** | **API Call** | **Sample Body** |
|---|---|---|---|
| | **Sample cURL Command** | | |
| | **Sample Output** | | |
| Initiate a backup | POST | <wapi_url>/fileop?_function=getgriddata | {"type": "BACKUP"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=getgriddata" -d '{"type": "BACKUP"}' | | |
| | {"token":<br>"eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqKdww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLI6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/lA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\nnnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktIaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b9l3Hsn6\nS8JPEyI5m7ENY33xBbQAllA=\n",<br>"url": "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak"<br>} | | |
| Download the backup | GET | <url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak | |
| | curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak" -o "database.bak" | | |
| | #database.bak file is saved in the present working directory# | | |
| Remove the stored file using the token | POST | <wapi_url>/fileop?_function=downloadcomplete | {"token": "eJydU..A="} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqK | | |

| | |
|---|---|
| | dww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLI6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/IA0v<br>P2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\<br>nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktIaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b9l3Hsn6\nS<br>8JPEyI5m7ENY33xBbQAIlA=\n"}' |

Please note that while downloading the backup (in the second step above), the *Content-Type* in the header will be *application/force-download.*

When you initiate a backup, you will get a URL to which you can upload the backup file directly, and a token for restoring the database.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Initiate a file upload | POST | <wapi_url>/fileop?_function=uploadinit | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadinit" | | |
| | {"token": "eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n",<br>"url": "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file"<br>} | |
| Upload the backup file | POST | <url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/import_file | filedata=@database.bak |
| | curl -k -u admin:infoblox "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" -F name=database.bak -F filedata=@database.bak | | |
| Restore the database | POST | <wapi_url>/fileop?_function=restoredatabase | {"mode":"NORMAL", "token": "eJydU..w="} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=restoredatabase" -d '{"mode":"NORMAL","token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n"}' | | |

## Grid upgrade

For a grid-wide upgrade, you can use the *upgrade* function. 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.

<table>
<tr><th colspan="2" rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><th colspan="3">Sample cURL Command</th></tr>
<tr><th colspan="3">Sample Output</th></tr>
<tr><td rowspan="6">Upload the upgrade file</td><td rowspan="2">Initiate a file upload</td><td>POST</td><td><wapi_url>/fileop?_function=uploadinit</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadinit"</td></tr>
<tr><td colspan="3">{"token": "eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n", "url": "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" }</td></tr>
<tr><td rowspan="2">Upload the upgrade file</td><td>POST</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/import_file</td><td>file=@upgrade-file.bin</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" -F name=upgrade-file.bin -F filedata=@upgrade-file.bin</td></tr>
<tr><td rowspan="2">Set it as the upgrade file</td><td>POST</td><td><wapi_url>/fileop?_function=set_upgrade_file</td><td>{"token": "eJydU..w="}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=set_upgrade_file" -d '{"token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3lPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n"}'</td></tr>
<tr><td colspan="2" rowspan="2">Call the upgrade function to "UPLOAD" the file</td><td>POST</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade</td><td>{"action": "UPLOAD"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade" -d '{"action": "UPLOAD"}'</td></tr>
<tr><td colspan="2" rowspan="2">Call the upgrade function to start the distribution process</td><td>POST</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade</td><td>{"action": "DISTRIBUTION_START"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade" -d '{"action": "DISTRIBUTION_START"}'</td></tr>
<tr><td colspan="2" rowspan="2">Call the upgrade function to start the upgrade</td><td>POST</td><td><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade</td><td>{"action": "UPGRADE"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade" -d '{"action": "UPGRADE"}'</td></tr>
<tr><td colspan="2" rowspan="3">Check the upgrade status</td><td>GET</td><td><wapi_url>/upgradestatus?type=GRID</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/upgradestatus?type=GRID"</td></tr>
<tr><td colspan="3">[{"_ref": "upgradestatus/Li51cGdyYWRlc3RhdHVzJHVwZ3JhZGVfc3RhdHVz:Infoblox", "element_status": "WORKING",</td></tr>
</table>

| | |
|---|---|
| | "grid_state": "DEFAULT",<br>"group_state": "GROUP_NONE",<br>"ha_status": "NOT_CONFIGURED",<br>"message": "",<br>"steps_completed": 0,<br>"steps_total": 0,<br>"type": "GRID",<br>"upgrade_state": "NONE",<br>"upgrade_test_status": "NONE"<br>}] |

### Traffic Capture

You must first initiate the traffic capture. To download the traffic capture file, the capture must be stopped. Either stop it manually or wait for the timer to expire. After downloading the capture file, remember to remove the stored file using the token.

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Check the current capture status | POST | <wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_status | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_status" | | |
| | {"file_exists": false,<br>"file_size": 0,<br>"status": "STOPPED"} | | |
| Initiate the capture | POST | <wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_control&action=START&interface=ALL | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_control&action=START&interface=ALL" | | |
| | {} | | |
| Check the capture status | POST | <wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_status | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_status" | | |
| | {"file_exists": true,<br>"file_size": 12288,<br>"status": "RUNNING"} | | |
| Stop the capture | POST | <wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_control&action=STOP&interface=ALL | |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=capture_traffic_control&action=STOP&interface=ALL" | | |
| | {} | | |
| Generate the capture file | POST | <wapi_url>/fileop?_function=getmemberdata&member=infoblox.localdomain&type=TRAFFIC_CAPTURE_FILE | |

<table>
<tr><td rowspan="4"></td><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=getmemberdata&member=infoblox.localdomain&type=TRAFFIC_CAPTURE_FILE"</td></tr>
<tr><td colspan="3">{"token": "eJy9kcFuwyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQqZ2Tz9Tab3utgOW8f9bfNhSWncD\nr3uCQdppDn6RwXriGFlLM3W2HeyV2knHE25Oz6RuQgNn3RHHiQRoFzMEMwEQZWQgbkPWyuXkstJX\nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzU9pyjLKREl5VtCcp7EKyiBdgM4MGoxN\nvf4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5hAY4KRZ8kmT/IKgnRqGd3B9jQ0nvbf\nSLKNUEZhViHTXy+h7f4LhTPBnGXYk844wKbXaRjdv+Mz9osDepJWmamPVY5cz6/HmG4ehtGquBkW\nl1Xv3nZwftnHe0HmcHasjltkWxQ7owc1Q7Ag7egaf++qyDFOqm0cmMktAb60n42doiZQa+kPIMm5\nYA==\n",
"url": "https://10.196.205.42/http_direct_file_io/req_id-DOWNLOAD-1119203448225965/infoblox.localdo_0_2019-11-19-20-34-48_tcpdumpLog.tar.gz"}</td></tr>
<tr><td rowspan="3">Download the traffic capture file</td><td>GET</td><td><url_from_the_previous_output><br>Example:<br>https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-1119203448225965/infoblox.localdo_0_2019-11-19-20-34-48_tcpdumpLog.tar.gz</td><td></td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1119203448225965/infoblox.localdo_0_2019-11-19-20-34-48_tcpdumpLog.tar.gz" -o "trafficCapture.tar.gz"</td></tr>
<tr><td colspan="3"># trafficCapture.tar.gz file is saved in the present working directory#</td></tr>
<tr><td rowspan="2">Remove the stored file using the token</td><td>POST</td><td><wapi_url>/fileop?_function=downloadcomplete</td><td>{"token": "eJy9kc..A=="}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJy9kcFuwyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQqZ2Tz9Tab3utgOW8f9bfNhSWncD\nr3uCQdppDn6RwXriGFlLM3W2HeyV2knHE25Oz6RuQgNn3RHHiQRoFzMEMwEQZWQgbkPWyuXkstJX\nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzU9pyjLKREl5VtCcp7EKyiBdgM4MGoxN\nvf4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5hAY4KRZ8kmT/IKgnRqGd3B9jQ0nvbf\nSLKNUEZhViHTXy+h7f4LhTPBnGXYk844wKbXaRjdv+Mz9osDepJWmamPVY5cz6/HmG4ehtGquBkW\nl1Xv3nZwftnHe0HmcHasjltkWxQ7owc1Q7Ag7egaf++qyDFOqm0cmMktAb60n42doiZQa+kPIMm5\nYA==\n"}'</td></tr>
</table>

Please note that while downloading the capture file, the *Content-Type* in the header will be *application/force-download.*

## Support Bundle

When you initiate a support bundle download, you will get a URL that can be used to download the tar.gz file directly, and a token for the download session. After downloading the support bundle, remember to remove the stored file using the token.

<table>
<tr><th rowspan="3">Operation</th><th>REST Method</th><th>API Call</th><th>Sample Body</th></tr>
<tr><th colspan="3">Sample cURL Command</th></tr>
<tr><th colspan="3">Sample Output</th></tr>
<tr><td rowspan="3">Initiate the support bundle download</td><td>POST</td><td><wapi_url>/fileop?_function=get_support_bundle</td><td>{"member": "infoblox.local"}</td></tr>
<tr><td colspan="3">curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=get_support_bundle" -d '{"member": "infoblox.local"}'</td></tr>
<tr><td colspan="3">{"token": "eJytUUFuwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFXCV9faFSe+2lB9Cws8MsgxAW7+DU\nSOImrPHBLSJYR5CRtdBmsP1kb9QalVa4o/Kk7UIHFzUQLlgA6Bc9BW0AiNQiENyStcQdua7UDbW7\nQ9CzWhEsyZGVVV00ZVE2lFf5rm4Y8dfV4qZI8yh4CwH9Q5axpqCM15TRKs9SEaSO0wU</td></tr>
</table>

| | | | |
|---|---|---|---|
| | Y9KRA28yp\nd9By055fT8/nfbvJWc5zXuRlw3lV57vML4jWhcNi5KRo6BwdP6NJlfy0jKiOdn/dEtuaJJ DxvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0fPwdEpw+9swW5kSZSnkdv+yh8vjMZ1L4s MFGU8fwKpI\nDlpN0kOwIOyMnftW1eSUUug7BG1wCfChnNfWJK6JXE+/AJH0pUU=\n", "url": "https://10.196.205.42/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.tar.gz"} | | |
| Download the support bundle | GET | <url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.tar.gz | |
| | curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.tar.gz" -o "infoblox.local_supportBundle.tar.gz" | | |
| | # infoblox.local_supportBundle.tar.gz file is saved in the present working directory# | | |
| Remove the stored file using the token | POST | <wapi_url>/fileop?_function=downloadcomplete | {"token": "eJytUUF..U=\n"} |
| | curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJytUUFuwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFXCV9faFSe+2lB9Cws8MsgxAW7+ DU\nSOImrPHBLSJYR5CRtdBmsP1kb9QalVa4o/Kk7UIHFzUQLIgA6Bc9BW0AiNQiENyStcQdua7U DbW7\nQ9CzWhEsyZGVVV00ZVE2IFf5rm4Y8dfV4qZI8yh4CwH9Q5axpqCM15TRKs9SEaSO0wU Y9KRA28yp\nd9By055fT8/nfbvJWc5zXuRlw3lV57vML4jWhcNi5KRo6BwdP6NJlfy0jKiOdn/dEtuaJJ DxvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0fPwdEpw+9swW5kSZSnkdv+yh8vjMZ1L4s MFGU8fwKpI\nDlpN0kOwIOyMnftW1eSUUug7BG1wCfChnNfWJK6JXE+/AJH0pUU=\n"}' | | |

Please note that while downloading the capture file, the *Content-Type* in the header will be *application/force-download.*

## Sample paging request

When a search result yields a large number of results, you can use paging. 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 returned results object will contain 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 the subsequent results, you can re-send GET requests to the original object and set *_page_id* to the ID string returned in the previous page of results.

The following example shows how to retrieve all host records in the environment, 4 at a time. You can change the queried network object or the number of records according to your requirement.

| **Operation** | **REST Method** | **API Call** |
|---|---|---|
| | | **Sample cURL Command** |
| | | **Sample Output** |
| Fetch the first 4 host records | GET | <wapi_url>/record:host?_paging=1&_return_as_object=1&max_results=4 |
| | curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_max_results=4" | |
| | {"next_page_id": "789c55904d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f23 7efcd7bf6ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6 fb083b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d2197686657ac 17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614 277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce 5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad0 | |

| | | |
|---|---|---|
| | 7f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371",<br>"result":<br>[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xMC4x<br>MC4xMC4yMC4:10.10.10.20/host.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "host.info.com",<br>"ipv4addr": "10.10.10.20"<br>}],<br>"name": "host.info.com",<br>"view": "default"<br>},<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLnNlcnZlcjE:server1.demo.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmRlbW8uc2VydmVyMS4x<br>LjEuMS4yNS4:1.1.1.25/server1.demo.com/default",<br>"configure_for_dhcp": false,<br>"host": "server1.demo.com",<br>"ipv4addr": "1.1.1.25"<br>}],<br>"name": "server1.demo.com",<br>"view": "default"<br>},<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLm1vbml0b3I:monitor.demo.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmRlbW8ubW9uaXRvci4xL<br>jEuMS41MC4:1.1.1.50/monitor.demo.com/default",<br>"configure_for_dhcp": false,<br>"host": "monitor.demo.com",<br>"ipv4addr": "1.1.1.50"<br>}],<br>"name": "monitor.demo.com",<br>"view": "default"<br>},<br>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8udGVzdC4yLjIuMi<br>4xMTAu:2.2.2.120/test.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "test.info.com",<br>"ipv4addr": "2.2.2.120"<br>}],<br>"name": "test.info.com",<br>"view": "default"<br>}]} |
| Query the next set of records | GET | <wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d219768 |

6657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371

curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d2197686657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371"


{"next_page_id":
"789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e",
"result":
[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnMx:s1.info.com/default",
"ipv4addrs":
[{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uczEuMTAuMTAuMTAuMjAu:10.10.10.20/s1.info.com/default",
"configure_for_dhcp": false,
"host": "s1.info.com",
"ipv4addr": "10.10.10.20"
}],
"name": "s1.info.com",
"view": "default"
},
{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmgy:h2.info.com/default",
"ipv4addrs":
[{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaDIuNS41LjUuOTAu:5.5.5.90/h2.info.com/default",
"configure_for_dhcp": false,
"host": "h2.info.com",
"ipv4addr": "5.5.5.90"
}],
"name": "h2.info.com",
"view": "default"
},
{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmUy:e2.info.com/default",
"ipv4addrs":
[{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZTIuOS45LjkuMTAwLg:9.9.9.100/e2.info.com/default",
"configure_for_dhcp": false,
"host": "e2.info.com",
"ipv4addr": "9.9.9.100"
}],

<table>
<tr><td></td><td colspan="2">"name": "e2.info.com",<br>"view": "default"<br>},<br>{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmRldnN0YWNr:devstack.info.com/default<br>",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZGV2c3RhY2su<br>MTcyLjI2LjEuMjAu:172.26.1.20/devstack.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "devstack.info.com",<br>"ipv4addr": "172.26.1.20"<br>}],<br>"name": "devstack.info.com",<br>"view": "default"<br>}]}</td></tr>
<tr><td rowspan="3">Query the next set of records</td><td>GET</td><td><wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e</td></tr>
<tr><td colspan="2">curl -k -u admin:infoblox -X GET<br>"https://grid-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e"</td></tr>
<tr><td colspan="2">{"result":<br>[{"_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnJvdXRlcg:router.info.com/default",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucm91dGVyLjEw<br>MC4xMC4xMC4xLg:100.10.10.1/router.info.com/default",<br>"configure_for_dhcp": false,<br>"host": "router.info.com",<br>"ipv4addr": "100.10.10.1"<br>}],<br>"name": "router.info.com",<br>"view": "default"<br>}]}</td></tr>
</table>

## Multiple Object Body Feature using /request

The *request* object allows the control of WAPI through a single-entry point. You can either have Single Object Body Requests or Multiple Object Body Requests.

Single object body requests can be used for any supported WAPI operations, including scheduling and approval. Only HTTP methods (GET, PUT, DELETE and POST) are valid methods for the single object body

Multiple object body requests are composed of a list of single requests. While programming this enables to make multiple requests with one API call, thus simplifying an operation, and reducing the number of API calls to be made. In addition to the standard HTTP methods (GET, PUT, POST, and DELETE), single request inside a multiple object body request can be set to these values:

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

**Note**: The Multiple Object Body Feature is only available NIOS 7.1 onwards (WAPI v2.1 onwards)

### Get records of multiple record types

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get Host/A/PTR records | POST | <wapi_url>/request | [{"method": "GET",<br>"object": "record:host",<br>"data": {},<br>"args":{"_return_fields":"name,dns_name,aliases,dns_aliases,ipv4addrs,configure_for_dns"}},<br>{"method": "GET",<br>"object": "record:a",<br>"data": {},"args": {}},<br>{"method": "GET",<br>"object": "record:ptr",<br>"data": {},"args": {}}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method":"GET","object":"record:host","data":{},"args":{"_return_fields":"name,dns_name,aliases,dns_aliases,ipv4addrs,configure_for_dns"}},{"method": "GET","object": "record:a","data": {},"args": {}},{"method": "GET","object": "record:ptr","data": {},"args": {}}]' | | |
| | [[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",<br>"configure_for_dns": true,<br>"dns_name": "host1.test.com",<br>"ipv4addrs":<br>[{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",<br>"configure_for_dhcp": false,<br>"host": "host1.test.com", | | |

| | |
|---|---|
| | "ipv4addr": "172.26.1.21"<br>},<br>….<br>{"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",<br>"configure_for_dns": true,<br>"dns_name": "mailer.info.com",<br>"ipv4addrs":<br>[{"_ref":<br>"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS4xLjEwMC4:10.1.1.100/mailer.info.com/default.test",<br>"configure_for_dhcp": false,<br>"host": "mailer.info.com",<br>"ipv4addr": "10.1.1.100",<br>"mac": "aa:bb:cc:11:22:33"<br>}],<br>"name": "mailer.info.com"<br>}],<br>[{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",<br>"ipv4addr": "172.26.1.100",<br>"name": "host.test.info.com",<br>"view": "default"<br>},<br>{"_ref":<br>"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",<br>"ipv4addr": "10.10.10.2",<br>"name": "server.info.com",<br>"view": "default"<br>}],<br>[{"_ref":<br>"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTI3LjAuMC4xLmxvY2FsaG9zdA:1.0.0.127.in-addr.arpa/default",<br>"ptrdname": "localhost",<br>"view": "default"<br>},<br>….<br>{"_ref":<br>"record:ptr/ZG5zLmJpbmRfcHRyJC4yLmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4ubG9jYWxob3N0:1.0.0.0

| | | | |
|---|---|---|---|
| | | | "assign_state": {"host_ref": "_ref"},<br>"enable_substitution": true,"discard": true},<br>{ "method": "DELETE",<br>"object": "##STATE:host_ref:##",<br>"enable_substitution": true,"discard": true},<br>{"method": "STATE:DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "STATE:ASSIGN","data":{"host_name":"host1.test.com"}},{"method":"GET","object": "record:host","data": {"name":"##STATE:host_name:##"},"assign_state": {"host_ref": "_ref"},"enable_substitution": true,"discard": true},{ "method": "DELETE", "object": "##STATE:host_ref:##","enable_substitution": true,"discard": true},{"method": "STATE:DISPLAY"}]' | | |
| | [{"host_name": "host1.test.com",<br>"host_ref":<br>"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"<br>}] | | |

### Get next available IP address

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get next available IP address from an IPv4 subnet | POST | <wapi_url>/request | [{"method": "GET",<br>"object": "network",<br>"data": {"network": "192.168.1.0/24"},<br>"assign_state": {"netw_ref": "_ref"},<br>"discard": true},<br>{"method": "POST",<br>"object": "##STATE:netw_ref:##",<br>"args": {"_function": "next_available_ip"},<br>"enable_substitution": true}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "GET","object": "network","data": {"network": "192.168.1.0/24"},"assign_state": {"netw_ref": "_ref"},"discard": true},{"method": "POST","object": "##STATE:netw_ref:##","args": {"_function": "next_available_ip"},"enable_substitution": true}]' | | |
| | [{"ips": ["192.168.1.1"]}] | | |
| Get next available IP address from an IPv6 subnet | POST | <wapi_url>/request | [{"method": "POST",<br>"object": "record:host",<br>"data": {"configure_for_dns": false,<br>"ipv6addrs":<br>[{"configure_for_dhcp": false,<br>"ipv6addr":<br>{"_object_function":"next_available_ip",<br>"_result_field":"ips",<br>"_object" : "ipv6network",<br>"_object_parameters":<br><br>{"network":"2600:6801:1106:f00::f00/120",<br>"network_view":"sandbox"}}}],<br>"name": "CPE_1",<br>"network_view": "sandbox"},<br>"args": {"_return_fields": "name" }<br>}] |

| | |
|---|---|
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": "record:host","data": {"configure_for_dns": false,"ipv6addrs":[{"configure_for_dhcp": false, "ipv6addr":{"_object_function":"next_available_ip","_result_field":"ips","_object" : "ipv6network","_object_parameters":{"network":"2600:6801:1106:f00::f00/120", "network_view":"sandbox"}}}],"name": "host.demo.com","network_view": "sandbox"},"args": {"_return_fields": "name" }}]' |
| | [{"_ref": "record:host/ZG5zLmhvc3QkLm5vbl9ETlNfaG9zdF9yb290MS4wLjE1NzQxOTEwMTc2NzUuY29tLmRlbW8uaG9zdA:host.demo.com/%20%20", "name": "host.demo.com" }] |

## Pre-provision a Grid member

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Pre-provision a grid member | POST | <wapi_url>/request | [{"method": "POST", "object": "member", "data": {"host_name": "autojoin01.localdomain", "vip_setting": {"address": "172.16.0.160", "gateway": "172.16.0.1", "subnet_mask": "255.255.255.0"}, "config_addr_type": "IPV4", "platform": "VNIOS"}, "assign_state": {"member_ref": "_ref"}, "enable_substitution": true, "discard": true}, {"method": "PUT", "object": "##STATE:member_ref:##", "enable_substitution": true, "data": {"pre_provisioning":{"hardware_info": [{"hwmodel": "IB-VM-820", "hwtype": "IB-VNIOS"}], "licenses": ["dhcp","dns","enterprise", "vnios","rpz"]}}}, {"method": "STATE:DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": "member","data": {"host_name": "autojoin01.localdomain","vip_setting": {"address": "172.16.0.160","gateway": "172.16.0.1","subnet_mask": "255.255.255.0"},"config_addr_type": "IPV4","platform": "VNIOS"},"assign_state": {"member_ref": "_ref"},"enable_substitution": true, "discard": true}, {"method": "PUT","object": "##STATE:member_ref:##","enable_substitution": true,"data": {"pre_provisioning":{"hardware_info": [{"hwmodel": "IB-VM-820","hwtype": "IB-VNIOS"}],"licenses": ["dhcp","dns","enterprise","vnios","rpz"]}}},{"method": "STATE:DISPLAY"}]' | | |
| | ["member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox", {"member_ref": "member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox"}] | | |
| Pre-provision an IB-FLEX member | POST | <wapi_url>/request | [{"method": "POST", "object": "member", "data": {"host_name": "flex-member1.localdomain", "vip_setting": {"address": "172.16.0.200", "gateway": "172.16.0.1", |

| | | | |
|---|---|---|---|
| | | | "subnet_mask": "255.255.255.0"},<br>"config_addr_type": "IPV4",<br>"platform": "VNIOS"},<br>"assign_state": {"member_ref": "_ref"},<br>"enable_substitution": true,<br>"discard": true},<br>{"method": "PUT",<br>"object": "##STATE:member_ref:##",<br>"enable_substitution": true,<br>"data": {"pre_provisioning":{"hardware_info": [{"hwtype": "IB-FLEX"}],<br>"licenses": []}}},<br>{"method": "STATE:DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": member","data": {"host_name": "flex-member1.localdomain","vip_setting": {"address": "172.16.0.200","gateway": "172.16.0.1","subnet_mask": "255.255.255.0"},"config_addr_type": "IPV4","platform": "VNIOS"},"assign_state": {"member_ref": "_ref"},"enable_substitution": true, "discard": true}, {"method": "PUT","object": "##STATE:member_ref:##","enable_substitution": true,"data": {"pre_provisioning":{"hardware_info": [{"hwtype": "IB-FLEX"}],"licenses": []}}},{"method": "STATE:DISPLAY"}]' | | |
| | ["member/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain",<br>{"member_ref": "member/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain"}] | | |

## Enable DHCP service on a member

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Enable the DHCP service on a member | POST | <wapi_url>/request | [{"method": "STATE:ASSIGN",<br>"data":{"member_name":"member1.localdomain"}},<br>{"method":"GET",<br>"object": "member:dhcpproperties",<br>"data": {"host_name":"##STATE:member_name:##"},<br>"assign_state": {"host_ref": "_ref"},<br>"enable_substitution": true,<br>"discard": true},<br>{"method": "PUT",<br>"object": "##STATE:host_ref:##",<br>"enable_substitution": true,<br>"data": {"enable_dhcp":true}},<br>{"method": "STATE:DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" - d '[{"method": "STATE:ASSIGN","data":{"member_name":"member1.localdomain"}},{"method":"GET","object": "member:dhcpproperties","data": {"host_name":"##STATE:member_name:##"},"assign_state": {"host_ref": "_ref"},"enable_substitution": true,"discard": true},{ "method": "PUT", "object": "##STATE:host_ref:##","enable_substitution": true,"data": {"enable_dhcp":true}},{"method": "STATE:DISPLAY"}]' | | |
| | ["member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain",<br>{"host_ref": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain",<br>"member_name": "member1.localdomain"}] | | |

### Get permissions for an object

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Get permissions for an object | POST | <wapi_url>/request | [{"method": "STATE:ASSIGN",<br>"data": {"zone_name": "test.org"}},<br>{"method": "GET",<br>"object": "zone_auth",<br>"data": {"fqdn": "##STATE:zone_name:##"},<br>"assign_state": {"zone_ref": "_ref"},<br>"enable_substitution": true,"discard": true},<br>{"method": "GET",<br>"object": "permission",<br>"enable_substitution": true },<br>{"method": "STATE:DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "STATE:ASSIGN","data": {"zone_name": "test.org"}},{"method": "GET","object": "zone_auth","data": {"fqdn": "##STATE:zone_name:##"},"assign_state": {"zone_ref": "_ref"},"enable_substitution": true,"discard": true},{"method": "GET", "object": "permission","enable_substitution": true },{"method": "STATE:DISPLAY"}]' | | |
| | [[{"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC4uLi4uY29tLmluZm9ibG94Lm9uZS5yb2xlJEROUyBBZG1pbi4:DNS%20Admin/WRITE",<br>"permission": "WRITE",<br>"resource_type": "VIEW",<br>"role": "DNS Admin"<br>},<br>…<br>{"_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",<br>"group": "cloud-api-only",<br>"permission": "WRITE",<br>"resource_type": "GRID_DNS_PROPERTIES"<br>}],<br>{"zone_name": "test.org",<br>"zone_ref": "zone_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test"<br>}] | | |
| | [{"host_name": "host1.test.com",<br>"host_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"<br>}] | | |

### Add multiple subnets

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Create multiple subnets | POST | <wapi_url>/request | [{"method": "POST",<br>"object": "network",<br>"data": {"network": "10.10.10.0/24"}}, |

| | | | |
|---|---|---|---|
| | | | {"method": "POST",<br>"object": "network",<br>"data": {"network": "10.10.20.0/24"}},<br>{"method": "POST",<br>"object": "network",<br>"data": {"network": "10.10.30.0/24"}}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": "network","data": {"network": "10.10.10.0/24"}},{"method": "POST", "object": "network","data": {"network": "10.10.20.0/24"}},{"method": "POST","object": "network","data": {"network": "10.10.30.0/24"}}]' | | |
| | ["network/ZG5zLm5ldHdvcmskMTAuMTAuMTAuMC8yNC8w:10.10.10.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTAuMTAuMjAuMC8yNC8w:10.10.20.0/24/default",<br>"network/ZG5zLm5ldHdvcmskMTAuMTAuMzAuMC8yNC8w:10.10.30.0/24/default"] | | |

### Add multiple host record

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Create multiple host records | POST | <wapi_url>/request | [{"method": "POST",<br>"object": "record:host",<br>"data": {"name":"host-1.info.com",<br>"ipv4addrs": [{"ipv4addr":"10.10.10.21"}]},<br>"assign_state": {"host1_ref": "_ref"},<br>"enable_substitution": true,<br>"discard": true},<br><br>{"method": "POST",<br>"object": "record:host",<br>"data": {"name":"host-2.info.com",<br>"ipv4addrs": [{"ipv4addr":"10.10.10.22"}]},<br>"assign_state": {"host2_ref": "_ref"},<br>"enable_substitution": true,<br>"discard": true},<br>{"method": "STATE: DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": "record:host","data": {"name":"host-1.info.com","ipv4addrs": [{"ipv4addr":"10.10.10.21"}]},"assign_state": {"host1_ref": "_ref"},"enable_substitution": true,"discard": true},{"method": "POST","object": "record:host","data": {"name":"host-2.info.com", "ipv4addrs": [{"ipv4addr":"10.10.10.22"}]},"assign_state": {"host2_ref": "_ref"},"enable_substitution": true,"discard": true},{"method": "STATE:DISPLAY"}]' | | |
| | [{"host1_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3QtMQ:host-1.info.com/default",<br>"host2_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3QtMg:host-2.info.com/default"}] | | |

### Add network using next available network

| Operation | REST Method | API Call | Sample Body |
|---|---|---|---|
| | Sample cURL Command | | |
| | Sample Output | | |
| Create network using the next available network | POST | <wapi_url>/request | [{ "method": "GET",<br>"object": "networkcontainer",<br>"data": {"*Site:": "test"}, |

| | | | |
|---|---|---|---|
| function within a network container with the EA Site set to "test" | | | "assign_state": {"netw_ref": "_ref"},<br>"discard": true},<br>{ "method": "POST",<br>"object": "network",<br>"data":{<br>"network":<br>{"_object_function": "next_available_network",<br>"_result_field":"networks",<br>"_parameters":{ "cidr":24 },<br>"_object_ref": "##STATE:netw_ref:##"<br>}<br>},<br>"enable_substitution": true},<br>{"method": "STATE: DISPLAY"}] |
| | curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{ "method": "GET","object": "networkcontainer", "data": {"*Site:": "test"}, "assign_state": {"netw_ref": "_ref"},"discard": true},{ "method": "POST","object": "network","data":{"network":{"_object_function": "next_available_network","_result_field":"networks","_parameters":{ "cidr":24 },"_object_ref": "##STATE:netw_ref:##"} },"enable_substitution": true},{"method": "STATE: DISPLAY"}]' | | |
| | [<br>"network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default"<br>] | | |

## Sample Codes

This section covers sample API calls in different programming/scripting languages

### Python

These examples use the *requests* module. For more details on the requests module, please refer http://docs.python-requests.org

| Network Object | REST Operation | Sample Python Programme |
|---|---|---|
| HOST record | GET | import requests<br>requests.packages.urllib3.disable_warnings()  # Disable SSL warnings in requests #<br>url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False)<br>print(response.text) |
| | GET | #This example demonstrates the use of cookies(ibapauth)#<br>import requests<br>import copy<br>requests.packages.urllib3.disable_warnings()  # Disable SSL warnings in requests #<br>url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False)<br>authcookie = copy.copy(response.cookies['ibapauth'] print(authcookie)<br>print(response.text)<br>#You can re-use the authcookie in subsequent API calls#<br>response_using_cookie = requests.request("GET", url, cookies=authcookie, verify=False)<br>print(response_using_cookie.text) |
| | GET | #This example demonstrates how you can work with large results using paging#<br>import requests<br>requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests #<br>url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1" |

| | | |
|---|---|---|
| | | querystring = {"_max_results":"20","_paging":"1","_return_as_object":"1"}<br>response = requests.request("GET", url, auth=('admin', 'Infoblox'),<br>params=querystring,verify=False)<br>print(response.text)<br>next_page_id = response.json()['next_page_id']<br>while next_page_id:<br>query = {"_page_id":next_page_id}<br>newresponse = requests.request("GET", url, auth=('admin', 'infoblox'),<br>params=query,verify=False)<br>print(newresponse.text)<br>try:<br>next_page_id = newresponse.json()['next_page_id']<br>except Exception:<br>next_page_id = 0 |
| | POST | import requests<br>requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests #<br>url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>payload = "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}"<br>headers = {'content-type': "application/json"}<br>response = requests.request("POST", url, auth=('admin', 'Infoblox'), data=payload,<br>headers=headers, verify=False)<br>print(response.text) |
| | POST (using the 'session' method that automatically handles the session cookies, etc when you perform multiple POST/GET) | import requests<br>import getpass<br>requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests #<br>url = "https://grid-master/wapi/v2.12"<br># Get username and password for auth #<br>user = input('Username: ')<br>passwd = getpass.getpass('Password: ')<br>wapi_session = requests.session()<br>wapi_session.auth = ('user', 'passwd')<br>payload = '{"name":"host.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.20"}]}'<br>headers = { 'content-type': "application/json" }<br># WAPI call POST /record:host #<br>response = wapi_session.post(wapi_url+"/record:host?_return_as_object=1",<br>data=payload, headers=headers, auth=(user, passwd), verify=False)<br># Error handling #<br>if response.status_code == 201:<br>print("Success.")<br>else:<br>print("Failed.")<br>print(response.text) |
| | PUT | import requests<br>requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests #<br>url =<br>"https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1"<br>payload = "{\"name\":\"host1.info.com\"}"<br>headers = {'content-type': "application/json"}<br>response = requests.request("PUT", url, auth=('admin', 'Infoblox'), data=payload,<br>headers=headers, verify=False)<br>print(response.text) |
| | DELETE | import requests<br>requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests #<br>url = |

| | | |
|---|---|---|
| | | "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1"<br>headers = {'content-type': "application/json"}<br>response = requests.request("DELETE", url, auth=('admin', 'Infoblox'), headers=headers, verify=False)<br>print(response.text) |

## Powershell

The following examples use the following function to avoid SSL Certificate issue while using HTTPS.

| Function Description | Function Contents |
|---|---|
| Function to ignore Self-Signed Certificates | function Ignore-SelfSignedCerts<br>{<br>try<br>{<br>Write-Host "Adding TrustAllCertsPolicy type." -ForegroundColor White<br>Add-Type -TypeDefinition @"<br>using System.Net;<br>using System.Security.Cryptography.X509Certificates;<br>public class TrustAllCertsPolicy : ICertificatePolicy<br>{<br>public bool CheckValidationResult(<br>ServicePoint srvPoint, X509Certificate certificate,<br>WebRequest request, int certificateProblem)<br>{<br>return true;<br>}<br>}<br>"@<br>Write-Host "TrustAllCertsPolicy type added." -ForegroundColor White<br>}<br>catch<br>{<br>Write-Host $_ -ForegroundColor "Yellow"<br>}<br>[System.Net.ServicePointManager]::CertificatePolicy = New-Object TrustAllCertsPolicy<br>} |

| Network Object | REST Operation | Sample Powershell Code |
|---|---|---|
| HOST record | GET | Ignore-SelfSignedCerts<br>$url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force<br>$creds = New-Object Management.Automation.PSCredential ('admin', $pwd)<br>Invoke-RestMethod -Uri $url -Method GET -Credential $creds |
| | GET | #This example demonstrates the use of cookies(ibapauth)#<br>Ignore-SelfSignedCerts<br>$url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force<br>$creds = New-Object Management.Automation.PSCredential ('admin', $pwd)<br>Invoke-RestMethod -Uri $url -Method GET -Credential $creds -SessionVariable authcookie<br>#You can re-use the authcookie in subsequent API calls#<br>Invoke-RestMethod -Uri $url -Method GET -WebSession $authcookie |

| | | |
|---|---|---|
| | POST | Ignore-SelfSignedCerts<br>$url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1"<br>$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force<br>$creds = New-Object Management.Automation.PSCredential ('admin', $pwd)<br>$host_details = @{<br>name="host.info.com"<br>ipv4addrs=@(@{ipv4addr="172.26.1.20"})}<br>$body = $host_details \| ConvertTo-Json<br>Invoke-RestMethod -Uri $url -Method POST -Credential $creds -ContentType 'application/json' -Body $body |
| | PUT | Ignore-SelfSignedCerts<br>$url = "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1"<br>$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force<br>$creds = New-Object Management.Automation.PSCredential ('admin', $pwd)<br>$host_details = @{<br>name="host1.info.com"}<br>$body = $host_details \| ConvertTo-Json<br>Invoke-RestMethod -Uri $url -Method PUT -Credential $creds -ContentType 'application/json' -Body $body |
| | DELETE | Ignore-SelfSignedCerts<br>$url = "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1"<br>$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force<br>$creds = New-Object Management.Automation.PSCredential ('admin', $pwd)<br>Invoke-RestMethod -Uri $url -Method DELETE -Credential $creds |

## Java

### Using Java Unirest

| Network Object | REST Operation | Sample Java Unirest Code |
|---|---|---|
| HOST record | GET | HttpResponse<JsonNode> response =<br>Unirest.get("https://grid-master/wapi/v2.12/record:host?_return_as_object=1")<br>.header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.header("accept", "application/json")<br>.asJson(); |
| | POST | HttpResponse<JsonNode> response =<br>Unirest.post("https://grid-master/wapi/v2.12/record:host?_return_as_object=1")<br>.header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.header("accept", "application/json")<br>.header("content-type", "application/json")<br>.body("{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}")<br>.asJson(); |
| | PUT | HttpResponse<JsonNode> response =<br>Unirest.put("https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1")<br>.header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.header("accept", "application/json")<br>.header("content-type", "application/json")<br>.body("{\"name\":\"host1.info.com\"}")<br>.asJson(); |

| | | |
|---|---|---|
| | DELETE | HttpResponse<JsonNode> response =<br>Unirest.delete("https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1")<br>.header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.header("accept", "application/json")<br>.header("content-type", "application/json")<br>.body("{\"name\":\"host1.info.com\"}")<br>.asJson(); |

### Using Java OkHttpClient

| Network Object | REST Operation | Sample Java OkHttpClient Code |
|---|---|---|
| HOST record | GET | OkHttpClient client = new OkHttpClient();<br>Request request = new Request.Builder()<br>.url("https://grid-master/wapi/v2.12/record:host?_return_as_object=1")<br>.get()<br>.addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.build();<br>Response response = client.newCall(request).execute(); |
| | POST | OkHttpClient client = new OkHttpClient();<br>MediaType mediaType = MediaType.parse("application/json");<br>RequestBody body = RequestBody.create(mediaType,<br>"{\"name\":\"host.info.com\",\"ipv4addrs\":[{\"ipv4addr\":\"172.26.1.20\"}]}");<br>Request request = new Request.Builder()<br>.url("https://grid-master/wapi/v2.12/record:host?_return_as_object=1")<br>.post(body)<br>.addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.addHeader("content-type", "application/json")<br>.build();<br>Response response = client.newCall(request).execute(); |
| | PUT | OkHttpClient client = new OkHttpClient();<br>MediaType mediaType = MediaType.parse("application/json");<br>RequestBody body = RequestBody.create(mediaType, "{\"name\":\"host1.info.com\"}");<br>Request request = new Request.Builder()<br>.url("https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1")<br>.put(body)<br>.addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.addHeader("content-type", "application/json")<br>.build();<br>Response response = client.newCall(request).execute(); |
| | DELETE | OkHttpClient client = new OkHttpClient();<br>Request request = new Request.Builder()<br>.url("https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1")<br>.delete(null)<br>.addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")<br>.addHeader("content-type", "application/json")<br>.build();<br>Response response = client.newCall(request).execute(); |

## C# (CSharp)

These examples use the *RestSharp* library.

| Network Object | REST Operation | Sample C# Scripts |
|---|---|---|
| HOST record | GET | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings//<br>var client = new RestClient("grid-master");<br>var request = new RestRequest("wapi/v2.12/record:host?_return_as_object=1",Method.GET);<br>request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=");<br>IRestResponse response = client.Execute(request);<br>var results = response.Data; |
| | POST | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings//<br>var client = new RestClient("grid-master");<br>var request = new<br>RestRequest("wapi/v2.12/record:host?_return_as_object=1",Method.POST);<br>request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=");<br>request.AddHeader("content-type", "application/json");<br>request.AddParameter("application/json", "{\"name\":\"host.info.com\",\"ipv4addrs\":[{\"ipv4addr\":\"172.26.1.20\"}]}", ParameterType.RequestBody);<br>IRestResponse response = client.Execute(request);<br>var results = response.Data; |
| | PUT | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings//<br>var client = new RestClient("grid-master");<br>var request = new<br>RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1",Method.PUT);<br>request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=");<br>request.AddHeader("content-type", "application/json");<br>request.AddParameter("application/json", "{\"name\":\"host1.info.com\"}", ParameterType.RequestBody);<br>IRestResponse response = client.Execute(request);<br>var results = response.Data; |
| | DELETE | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings//<br>var client = new RestClient("grid-master");<br>var request = new<br>RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1",Method.DELETE);<br>request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=");<br>request.AddHeader("content-type", "application/json");<br>IRestResponse response = client.Execute(request);<br>var results = response.Data; |

## References

Infoblox Community: Definitive List of REST Examples

Youtube Channel: WAPI Bytes

Infoblox Community: Why use Infoblox WAPIs

Infoblox Community: Getting Started with WAPIs using POSTMAN

Infoblox Community: Getting Started with WAPIs using Insomnia

Infoblox Community: Get more value out of Infoblox APIs

Infoblox Community: Consolidate your WAPIs using the Request Object

Infoblox

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