

REFERENCE GUIDE

Infoblox REST API

NIOS 8.3

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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/. The current version of the API is 2.7.  
If you need to use a patch release, you can specify it as vx.x.x (like v2.6.1)

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*.

**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/v2.6/networkview?\_return\_type=xml-pretty&name=default

Grid Master IP address Version Resource Arguments

## 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* }... ] ]

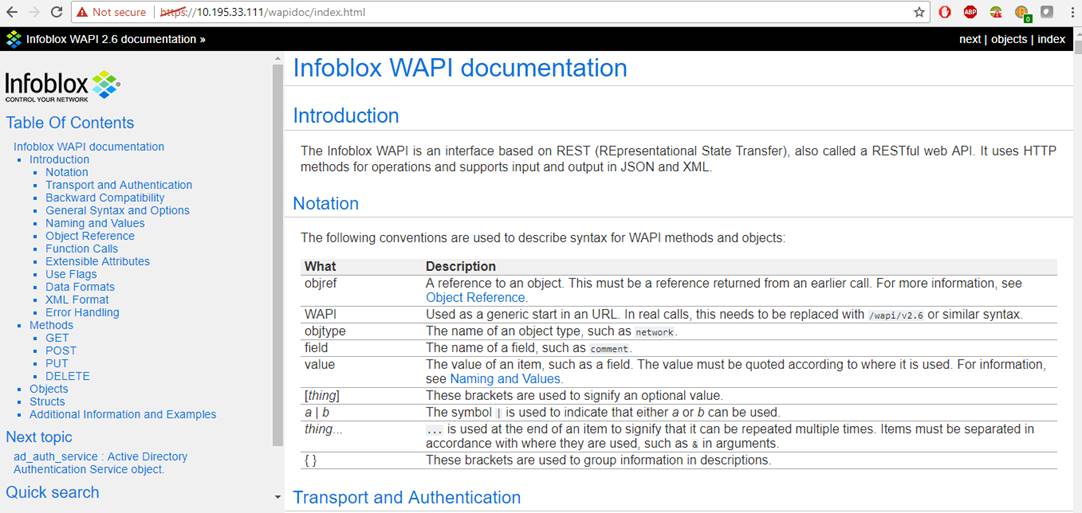
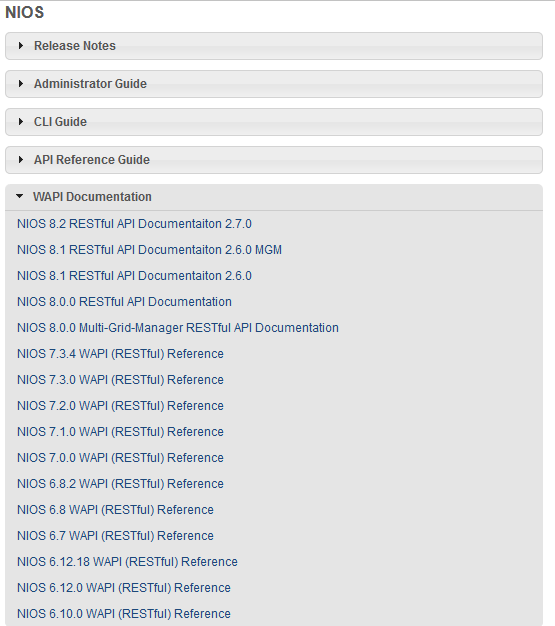
**Example**

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](https://support.infoblox.com) under NIOS in the Tech Docs section.  


# 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.

## Points to remember

* 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 WAPI documentation.
* For each of the use cases, it will cover the API call and corresponding cURL commands.
* 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/v2.7 or https://this.is.a.test.com/wapi/wapi\_version
* 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](http://json.org/)
  + XML Data:  
    Use XML quoting (&amp; 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.
* 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 to make 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/v2.7/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.

|  |  |  |  |
| --- | --- | --- | --- |
| **Operation** | **REST Method** | **API Call** | **Sample Body** |
| **Sample cURL Command** | | |
| **Sample Output** | | |
| A sample API call (Get host records) to save the cookie generated to a file called cookies.txt | curl -k -u admin:Infoblox -c cookies.txt -X GET "https://127.0.0.1/wapi/v2.7/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"  }]} | | |
| A sample API call (Get zones) to show how to use the generated cookie from cookies.txt | curl -k -b cookies.txt -X GET "https://127.0.0.1/wapi/v2.7/zone\_auth\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default",  "fqdn": "test.com",  "view": "default"  }]} | | |
| Modify the session timeout | PUT | <wapi\_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox | {"security\_setting":  {"session\_timeout": 60000}} |
| curl -k -b cookies.txt -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/grid/b25lLmNsdXN0ZXIkMA:Infoblox?\_return\_as\_object=1&\_return\_fields%2B=security\_setting" -d '{"security\_setting":{"session\_timeout": 60000}}' | | |
| {"result":  {"\_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox",  "security\_setting":  { "admin\_access\_items": [],  "audit\_log\_rolling\_enable": true,  "http\_redirect\_enable": false,  "lcd\_input\_enable": true,  "login\_banner\_enable": true,  "login\_banner\_text": "Disconnect NOW if you have not been expressly authorized to use this system.",  "remote\_console\_access\_enable": false,  "security\_access\_enable": false,  "security\_access\_remote\_console\_enable": true,  "session\_timeout": 600000,  "ssh\_perm\_enable": true,  "support\_access\_enable": false,  "support\_access\_info": "Not enabled"  }}} | | |
| Invalidate a cookie | POST | <wapi\_url>/logout |  |
| curl -k -b cookies.txt -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/?\_schema&\_return\_as\_object=1" | |
| {"result":   {"requested\_version": "2.7",  "supported\_objects":  ["ad\_auth\_service",  "admingroup",  "adminrole",  …..  "zone\_delegated",  "zone\_forward",  "zone\_rp",  "zone\_stub"  ],  "supported\_versions":   ["1.0","1.1","1.2","1.2.1", "1.3","1.4","1.4.1",  …….  "2.6","2.6.1","2.7"  ]}} | |
| 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://127.0.0.1/wapi/v2.7/record:host?\_schema&\_return\_as\_object=1" | |
| {"result":   {"cloud\_additional\_restrictions":   ["function call"],  "fields":  [{"is\_array": true,  "name": "aliases",  "standard\_field": false,  "supports": "rwu",  "type": ["string"]  },  {"is\_array": false,  "name": "allow\_telnet",  "standard\_field": false,  "supports": "rwu",  "type": ["bool"]  },  ……  {"is\_array": false,  "name": "zone",  "searchable\_by": "=",  "standard\_field": false,  "supports": "rs",  "type": ["string"]  }],  "restrictions": [],  "type": "record:host",  "version": "2.7"  }} | |

## 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://127.0.0.1/wapi/v2.7/extensibleattributedef?\_return\_as\_object=1" | | |
| {"result":   [{ "\_ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLkJ1aWxkaW5n:Building",  "default\_value": null,  "name": "Building",  "type": "STRING"  },  ……  {"\_ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLlJlcG9ydGluZ1NpdGU:ReportingSite",  "default\_value": "site1",  "name": "ReportingSite",  "type": "ENUM"  }]} | | |
| Create “Owner” Extensible Attribute of type String | POST | <wapi\_url>/extensibleattributedef | {"name": "Owner", "type": "STRING"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/extensibleattributedef? \_return\_fields%2B=name,type&\_return\_as\_object=1" -d '{"name": "Owner","type": "STRING"}' | | |
| {"result":   {"\_ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLk93bmVy:Owner",  "default\_value": null,  "name": "Owner",  "type": "STRING" }} | | |
| Create a “Location” Extensible Attribute of type list with possible values Santa Clara, Tacoma, Bangalore, Mumbai | POST | <wapi\_url>/extensibleattributedef | {"name": "Location", "type": "ENUM", "list\_values": [{"value": "Santa Clara"}, {"value": "Tacoma"}, {"value": "Bangalore"}, {"value": "Mumbai"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"}]}' | | |
| {"result":   {"\_ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLkxvY2F0aW9u:Location",  "default\_value": null,  "name": "Location",  "type": "ENUM"  }} | | |

### 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_auth?\_return\_fields%2B=fqdn&\_return\_as\_object=1" -d '{"fqdn": "info.com"}' | | | |
| {"result":   {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",  "fqdn": "info.com",  "view": "default"  }} | | | |
| Create IPV4 reverse mapping zone | POST | <wapi\_url>/zone\_auth | {"fqdn": "10.10.10.in-addr.arpa ", "zone\_format":"IPV4"} | |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_auth?\_return\_fields%2B=fqdn&\_return\_as\_object=1" -d '{"fqdn": "10.10.10.in-addr.arpa","zone\_format":"IPV4"}' | | | |
| {"result":   {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMC4xMC4xMA:10.10.10.0%2F24/default",  "fqdn": "10.10.10.0/24",  "view": "default" }} | | | |
| Modify | PUT | <wapi\_url>/zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default | | {"grid\_primary":[{"name":"infoblox.localdomain"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default?\_return\_fields%2B=fqdn,grid\_primary&\_return\_as\_object=1" -d '{"grid\_primary":[{"name":"infoblox.localdomain"}]}' | | | |
| {"result":  {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",  "fqdn": "info.com",  "grid\_primary":   [{"name": "infoblox.localdomain",  "stealth": false  }],  "view": "default" }} | | | |
| Delete | DELETE | <wapi\_url>/zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default | |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default&?\_return\_as\_object=1" | | | |
| {"result": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default"} | | | |
| Forward Zone | Fetch information | GET | <wapi\_url>/zone\_forward | |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone\_forward?\_return\_as\_object=1" | | | |
| {"result":  [{"\_ref": "zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5mb3J3YXJkdGVzdA:forwardtest.com/default",  "forward\_to":   [{"address": "172.26.1.10",  "name": "host.forwardtest.com"  }],  "fqdn": "forwardtest.com",  "view": "default"  }]} | | | |
| Create | POST | <wapi\_url>/zone\_forward | | {"fqdn":"infoblox.com", "forward\_to":[{"address":"10.10.10.11", "name":"host.infoblox.com"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_forward?\_return\_as\_object=1" -d '{"fqdn":"infoblox.com","forward\_to":[{"address":"10.10.10.11","name":"host.infoblox.com"}]}' | | | |
| {"result":   {"\_ref": "zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",  "forward\_to":   [{"address": "10.10.10.11",  "name": "host.infoblox.com"  }],  "fqdn": "infoblox.com",  "view": "default" }} | | | |
| Modify | PUT | <wapi\_url>/zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default | | {"forwarding\_servers": [{"name":"infoblox.localdomain"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default?\_return\_fields%2B=forwarding\_servers&\_return\_as\_object=1" -d '{"forwarding\_servers": [{"name":"infoblox.localdomain"}]}' | | | |
| {"result":   {"\_ref": "zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",  "forward\_to":   [{"address": "10.10.10.11",  "name": "host.infoblox.com"  }],  "forwarding\_servers":   [{"forward\_to": [],  "forwarders\_only": false,  "name": "infoblox.localdomain",  "use\_override\_forwarders": false  }],  "fqdn": "infoblox.com",  "view": "default"  }} | | | |
| Delete | DELETE | <wapi\_url>/zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default | |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default?\_return\_as\_object=1" | | | |
| {"result": "zone\_forward/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default"} | | | |
| Zone Delegation | Fetch information | GET | <wapi\_url>/zone\_delegated | |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone\_delegated?\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",  "delegate\_to":   [{"address": "172.26.1.100",  "name": "host.test.info.com"  }],  "fqdn": "test.info.com",  "view": "default" }]} | | | |
| Create | POST | <wapi\_url>/zone\_delegated | | {"fqdn":"demo.info.com", "delegate\_to":[{"address":"10.10.10.20", "name":"host.demo.info.com"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_delegated?\_return\_fields%2B=fqdn,delegate\_to&\_return\_as\_object=1" -d '{"fqdn":"demo.info.com","delegate\_to":[{"address":"10.10.10.20","name":"host.demo.info.com"}]}' | | | |
| {"result":  {"\_ref": "zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default",  "delegate\_to":   [{"address": "10.10.10.20",  "name": "host.demo.info.com"  }],  "fqdn": "demo.info.com",  "view": "default" }} | | | |
| Modify | PUT | <wapi\_url>/zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default | | {"locked":true} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default?\_return\_fields=locked&\_return\_as\_object=1" -d '{"locked":true}' | | | |
| {"result":   {"\_ref": "zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default",  "locked": true }} | | | |
| Delete | DELETE | <wapi\_url>/zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default | |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/zone\_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default?\_return\_as\_object=1" | | | |
| {"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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xMC4xMC4xMC4yMC4:10.10.10.20/host.info.com/default",  "configure\_for\_dhcp": false,  "host": "host.info.com",  "ipv4addr": "10.10.10.20"  }],  "name": "host.info.com",  "view": "default" }} | | |
| 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://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name":"host1.info.com"}' | | |
| {"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" }} | | |
| Delete | DELETE | <wapi\_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default"} | | |
| A | Fetch information | GET | <wapi\_url>/record:a |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:a?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",  "ipv4addr": "172.26.1.100",  "name": "host.test.info.com",  "view": "default"  }]} | | |
| Create | POST | <wapi\_url>/record:a | {"name":"server.info.com", "ipv4addr":"10.10.10.2"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:a?\_return\_fields%2B=name,ipv4addr&\_return\_as\_object=1" -d '{"name":"server.info.com","ipv4addr":"10.10.10.2"}' | | |
| {"result":   {"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",  "ipv4addr": "10.10.10.2",  "name": "server.info.com",  "view": "default"  }} | | |
| Modify | PUT | <wapi\_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default | {"name":"server1.info.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name":"server1.info.com"}' | | |
| {"result":   {"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default",  "ipv4addr": "10.10.10.2",  "name": "server1.info.com",  "view": "default" }} | | |
| Delete | DELETE | <wapi\_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default"} | | |
| AAAA | Fetch information | GET | <wapi\_url>/record:aaaa |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:aaaa?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLnRlc3QsaG9zdCxmZDYwOmU0NTplMzFiOjo:host.test.com/default",  "ipv6addr": "fd60:e45:e31b::",  "name": "host.test.com",  "view": "default  }]} | | |
| Create | POST | <wapi\_url>/record:aaaa | {"name":"server.info.com", "ipv6addr":"fd60:e32:f1b9::2"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:aaaa?\_return\_fields%2b=name,ipv6addr&\_return\_as\_object=1" -d '{"name":"server.info.com","ipv6addr":"fd60:e32:f1b9::2"}' | | |
| {"result":   {"\_ref": "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:server.info.com/default",  "ipv6addr": "fd60:e32:f1b9::2",  "name": "server.info.com",  "view": "default" }} | | |
| 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://127.0.0.1/wapi/v2.7/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:server.info.com/default?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name":"server1.info.com"}' | | |
| {"result":   {"\_ref": "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default",  "ipv6addr": "fd60:e32:f1b9::2",  "name": "server1.info.com",  "view": "default" }} | | |
| 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://127.0.0.1/wapi/v2.7/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default"} | | |
| CNAME | Fetch information | GET | <wapi\_url>/record:cname |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:cname?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS50ZXN0LnRlc3Q:test.test.com/default",  "canonical": "cnametest.com",  "name": "test.test.com",  "view": "default" }]} | | |
| Create | POST | <wapi\_url>/record:cname | {"name":"cnametest.demo.info.com", "canonical":"demo.info.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:cname?\_return\_fields%2B=name,canonical&\_return\_as\_object=1" -d '{"name":"cnametest.demo.info.com","canonical":"demo.info.com"}' | | |
| {"result":   {"\_ref": "record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default",  "canonical": "demo.info.com",  "name": "cnametest.demo.info.com",  "view": "default" }} | | |
| Modify | PUT | <wapi\_url>/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default | {"name":"cname.demo.info.com "} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cnametest.demo.info.com/default?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name":"cname.demo.info.com"}' | | |
| {"result":   {"\_ref": "record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default",  "canonical": "demo.info.com",  "name": "cname.demo.info.com",  "view": "default" }} | | |
| Delete | DELETE | <wapi\_url>/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default"} | | |
| MX | Fetch information | GET | <wapi\_url>/record:mx |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:mx?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS50ZXN0Lm1haWwuaG9zdDEudGVzdC5jb20uMQ:mail.test.com/default",  "mail\_exchanger": "host1.test.com",  "name": "mail.test.com",  "preference": 1,  "view": "default"  }]} | | |
| Create | POST | <wapi\_url>/record:mx | {"mail\_exchanger":"exchange.info.com", "name":"mx.info.com","preference":1} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:mx?\_return\_fields%2B=mail\_exchanger,name&\_return\_as\_object=1" -d '{"mail\_exchanger":"exchange.info.com","name":"mx.info.com","preference":1}' | | |
| {"result":   {"\_ref": "record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default",  "mail\_exchanger": "exchange.info.com",  "name": "mx.info.com",  "preference": 1,  "view": "default" }} | | |
| Modify | PUT | <wapi\_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default | {"name":"mail.info.com "} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:mx.info.com/default?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name":"mail.info.com"}' | | |
| {"result":   {"\_ref": "record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default",  "mail\_exchanger": "exchange.info.com",  "name": "mail.info.com",  "preference": 1,  "view": "default" }} | | |
| Delete | DELETE | <wapi\_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default"} | | |
| NS | Fetch information | GET | <wapi\_url>/record:ns |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:ns?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMjcuMC4wLi5jbHVzdGVy:cluster/0.0.127.in-addr.arpa/default",  "name": "0.0.127.in-addr.arpa",  "nameserver": "cluster",  "view": "default"  },  {"\_ref": "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",  "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",  "nameserver": "cluster",  "view": "default"  },  ……  {"\_ref": "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3QuaG9zdC50ZXN0LmluZm8uY29t:host.test.info.com/test.info.com/default",  "name": "test.info.com",  "nameserver": "host.test.info.com",  "view": "default" }]} | | |
| Create | POST | <wapi\_url>/record:ns | {"name":"info.com", "nameserver":"infoblox.localdomain", "addresses":[{"address":"192.168.11.0"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:ns?\_return\_fields%2B=name,nameserver,addresses&\_return\_as\_object=1" -d '{"name":"info.com","nameserver":"infoblox.localdomain","addresses":[{"address":"192.168.11.0"}]}' | | |
| {"result":   {"\_ref": "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:infoblox.localdomain/info.com/default",  "addresses":   [{"address": "192.168.11.0",  "auto\_create\_ptr": true  }],  "name": "info.com",  "nameserver": "infoblox.localdomain",  "view": "default" }} | | |
| 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 "https://127.0.0.1/wapi/v2.7/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:infoblox.localdomain/info.com/default?\_return\_fields%2B=name,nameserver&\_return\_as\_object=1" -d '{"nameserver":"nios.info.com"}' | | |
| {"result":   {"\_ref": "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default",  "name": "info.com",  "nameserver": "nios.info.com",  "view": "default" }} | | |
| 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 "https://127.0.0.1/wapi/v2.7/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/info.com/default"} | | |
| PTR | Fetch information | GET | <wapi\_url>/record:ptr |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:ptr?\_return\_as\_object=1" | | |
| {"result":  [{"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTI3LjAuMC4xLmxvY2FsaG9zdA:1.0.0.127.in-addr.arpa/default",  "ptrdname": "localhost",  "view": "default"  },  {"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmlwNi4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjEuLmxvY2FsaG9zdA: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",  "ptrdname": "localhost",  "view": "default"  },  ……  {"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTcyLjI2LjEuMTAwLmhvc3QudGVzdC5pbmZvLmNvbQ:100.1.26.172.in-addr.arpa/default",  "ptrdname": "host.test.info.com",  "view": "default"  }]} | | |
| Create | POST | <wapi\_url>/record:ptr | {"name":"2.10.10.10.in-addr.arpa", "ptrdname":"server1.info.com", "ipv4addr":"10.10.10.2"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:ptr?\_return\_fields%2B=name,ptrdname,ipv4addr&\_return\_as\_object=1" -d '{"name":"2.10.10.10.in-addr.arpa", "ptrdname":"server1.info.com","ipv4addr":"10.10.10.2"}' | | |
| {"result":   {"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default",  "ipv4addr": "10.10.10.2",  "name": "2.10.10.10.in-addr.arpa",  "ptrdname": "server1.info.com",  "view": "default" }} | | |
| Modify | PUT | <wapi\_url>/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default | {"ptrdname":"server.info.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default?\_return\_fields%2B=ptrdname&\_return\_as\_object=1" -d '{"ptrdname":"server.info.com"}' | | |
| {"result":   {"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default",  "ptrdname": "server.info.com",  "view": "default" }} | | |
| Delete | DELETE | <wapi\_url>/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default?\_return\_as\_object=1" | | |
| {"result": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default"} | | |
| TXT | Fetch information | GET | <wapi\_url>/record:txt |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:txt?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default",  "name": "mail.test.com",  "text": "This a mail server",  "view": "default" }]} | | |
| Create | POST | <wapi\_url>/record:txt | {"name":"server.info.com",  "text":"This a host server"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:txt?\_return\_fields%2B=name,text&\_return\_as\_object=1" -d '{"name":"server.info.com","text":"This a host server"}' | | |
| {"result":   {"\_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default",  "name": "server.info.com",  "text": "This a host server",  "view": "default" }} | | |
| Modify | PUT | <wapi\_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default | {"text":"This is a test server"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default?\_return\_fields%2B=text&\_return\_as\_object=1" -d '{"text":"This a test server"}' | | |
| {"result":   {"\_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default",  "name": "server.info.com",  "text": "This a test server",  "view": "default" }} | | |
| Delete | DELETE | <wapi\_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI:server.info.com/default |  |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default?\_return\_as\_object=1" | | |
| {"result": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaXMiICJhIiAidGVzdCIgInNlcnZlciI:server.info.com/default"} | | |
| SRV | Fetch information | GET | <wapi\_url>/record:srv |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:srv?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20udGVzdC9fdGNwLl9zc2gvMS8xMC8yMi90ZXN0LmNvbQ:\_ssh.\_tcp.test.com/default",  "name": "\_ssh.\_tcp.test.com",  "port": 22,  "priority": 1,  "target": "test.com",  "view": "default",  "weight": 10 }]} | | |
| Create | POST | <wapi\_url>/record:srv | {"name": "\_ssh.\_tcp.info.com", "port": 22, "priority": 10, "target": "info.com", "weight": 10} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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}' | | |
| {"result":   {"\_ref": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:\_ssh.\_tcp.info.com/default",  "name": "\_ssh.\_tcp.info.com",  "port": 22,  "priority": 10,  "target": "info.com",  "view": "default",  "weight": 10 }} | | |
| Modify | PUT | <wapi\_url>/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:\_ssh.\_tcp.info.com/default | {"priority": 20} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:\_ssh.\_tcp.info.com/default?\_return\_fields%2B=priority&\_return\_as\_object=1" -d '{"priority": 20}' | | |
| {"result":   {"\_ref": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:\_ssh.\_tcp.info.com/default",  "name": "\_ssh.\_tcp.info.com",  "port": 22,  "priority": 20,  "target": "info.com",  "view": "default",  "weight": 10 }} | | |
| 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://127.0.0.1/wapi/v2.7/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 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
* 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://127.0.0.1/wapi/v2.7/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.

|  |  |  |
| --- | --- | --- |
| **Operation** | **REST Method** | **API Call** |
| **Sample cURL Command** | |
| **Sample Output** | |
| Retrieve non-system generated records | GET | <wapi\_url>/record:a?creator=STATIC |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:a?creator=STATIC&\_return\_fields%2B=creator&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",  "creator": "STATIC",  "ipv4addr": "10.10.10.2",  "name": "server.info.com",  "view": "default"  },  {"\_ref":  "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmRlbW8scHJpbnQsMTAuMTAuTAuMjE:print.demo.com/default",  "creator": "STATIC",  "ipv4addr": "10.10.10.21",  "name": "print.demo.com",  "view": "default" }]} | |

### 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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" }]} | |
| Get A record using object reference | GET | <wapi\_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default?\_return\_as\_object=1" | |
| {"result":   {"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",  "ipv4addr": "10.10.10.2",  "name": "server.info.com",  "view": "default" }} | |

The third example uses the *\_return\_fields+* to specify the Extensive 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 info.com in the name | GET | <wapi\_url>/record:a?name~=info.com&\_return\_fields=name |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/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.\*$&\_return\_fields=fqdn |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone\_auth?fqdn~=^i.\*lo.\*$&\_return\_fields=fqdn&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",  "fqdn": "infoblox.com"  },  {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvcm1ibG94:informblox.com/default",  "fqdn": "informblox.com"  },  {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmdsbw: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://127.0.0.1/wapi/v2.7/record:host?\_return\_fields%2B=aliases&name=printer.info.com&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI: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" }]} | | |
| Add a host with aliases | POST | <wapi\_url>/record:host | {"name":"wapialias.info.com", "ipv4addrs": [{"ipv4addr":"172.26.1.2"}], "aliases": [ "remote","pointer"]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?\_return\_fields%2B=aliases&\_return\_as\_object=1" -d '{"name":"wapialias.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.2"}],"aliases": [ "remote","pointer"]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",  "aliases":   ["remote.info.com",  "pointer.info.com"  ],  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",  "configure\_for\_dhcp": false,  "host": "wapialias.info.com",  "ipv4addr": "172.26.1.2"  }],  "name": "wapialias.info.com",  "view": "default" }} | | |
| Modify aliases on a host | PUT | <wapi\_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default | {"aliases": ["local"]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default?\_return\_fields%2B=aliases&\_return\_as\_object=1" -d '{"aliases": ["local"]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",  "aliases":   ["local.info.com"],  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",  "configure\_for\_dhcp": false,  "host": "wapialias.info.com",  "ipv4addr": "172.26.1.2"  }],  "name": "wapialias.info.com",  "view": "default" }} | | |
| Remove aliases from a host | PUT | <wapi\_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default | {"aliases": [ ]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default?\_return\_fields%2B=aliases&\_return\_as\_object=1" -d '{"aliases": [ ]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default",  "configure\_for\_dhcp": false,  "host": "wapialias.info.com",  "ipv4addr": "172.26.1.2"  }],  "name": "wapialias.info.com",  "view": "default" }} | | |

### 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":  [{"ipv4addr": "172.26.1.21"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?\_return\_fields%2B=ipv4addrs&\_return\_as\_object=1" -d '{"ipv4addrs":[{"ipv4addr": "172.26.1.21"}]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",  "configure\_for\_dhcp": false,  "host": "host1.test.com",  "ipv4addr": "172.26.1.21"  }],  "name": "host1.test.com",  "view": "default" }} | | |

### 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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",  "configure\_for\_dhcp": false,  "host": "host1.test.com",  "ipv4addr": "172.26.1.21"  },  {"\_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" }} | | |

### 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", "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"}}}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4xMC4xMC4zLg:10.10.10.3/wapi.info.com/default",  "configure\_for\_dhcp": false,  "host": "wapi.info.com",  "ipv4addr": "10.10.10.3"  }],  "name": "wapi.info.com",  "view": "default" }} | | |
| POST | <wapi\_url>/record:host | {"name": "wapi.info.com", "ipv4addrs":[{"ipv4addr": "func:nextavailableip:10.10.10.0/24"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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",  "view": "default" }} | | |
| POST | <wapi\_url>/record:host | {"name": "wapi.info.com", "ipv4addrs": [{"ipv4addr": "func:nextavailableip: 192.168.1.10-192.168.1.15"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?\_return\_fields%2B=name,ipv4addrs&\_return\_as\_object=1 " -d '{"name": "wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip: 192.168.1.10-192.168.1.15"}]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTIuMTY4LjEuMTAu:192.168.1.10/wapi.info.com/default",  "configure\_for\_dhcp": false,  "host": "wapi.info.com",  "ipv4addr": "192.168.1.10"  }],  "name": "wapi.info.com",  "view": "default" }} | | |
| Add host with next available IP from a network using a complex search (using Extensible Attributes) and inherit the EAs | POST | <wapi\_url>/record:host | {"name":"wapi.info.com", "ipv4addrs":[{"ipv4addr" : {"\_object\_function":"next\_available\_ip", "\_result\_field":"ips", "\_object":"network", "\_object\_parameters":{"\*Region" : "EMEA"}, "\_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}}, "use\_for\_ea\_inheritance":true}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?\_return\_fields%2B=name,ipv4addrs&\_return\_as\_object=1 " -d '{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"\_object\_function":"next\_available\_ip","\_result\_field":"ips","\_object":"network","\_object\_parameters":{"\*Region" : "EMEA"},"\_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},"use\_for\_ea\_inheritance":true}]}' | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",  "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" }} | | |

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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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" }} | | |

### 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://127.0.0.1/wapi/v2.7/grid:dns?\_return\_fields%2B=default\_ttl&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",  "default\_ttl": 28800 }]} | | |
| 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://127.0.0.1/wapi/v2.7/zone\_auth?fqdn=info.com&\_return\_fields%2B=use\_grid\_zone\_timer,soa\_default\_ttl&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",  "fqdn": "info.com",  "soa\_default\_ttl": 28800,  "use\_grid\_zone\_timer": false,  "view": "default"  }]} | | |
| 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://127.0.0.1/wapi/v2.7/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":   {"\_ref": "zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",  "fqdn": "info.com",  "soa\_default\_ttl": 5000,  "use\_grid\_zone\_timer": true,  "view": "default" }} | | |
| 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://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default?\_return\_fields%2B=ttl&\_return\_as\_object=1" -d '{"use\_ttl": true,"ttl":3600}' | | |
| {"result":   {"\_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzIiAiYSIgIm1haWwiICJzZXJ2ZXIi:mail.test.com/default",  "name": "mail.test.com",  "text": "This a mail server",  "ttl": 3600,  "view": "default" }} | | |

### 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":  [{ "\_struct": "addressac", "address":"Any", "permission":"ALLOW"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?\_return\_fields%2B=allow\_transfer&\_return\_as\_object=1" -d '{"allow\_transfer": [{ "\_struct": "addressac","address":"Any","permission":"ALLOW"}]}' | | |
| {"result":   {"\_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",  "allow\_transfer":   [{"\_struct": "addressac",  "address": "Any",  "permission": "ALLOW"  }]}} | | |
| 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":  [{ "\_struct": "addressac", "address":"10.10.0.0/16", "permission":"ALLOW"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain",  "allow\_transfer":   [{"\_struct": "addressac",  "address": "10.10.0.0/16",  "permission": "ALLOW"  }],  "host\_name": "member1.localdomain",  "ipv4addr": "172.26.1.3" }} | | |
| 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://127.0.0.1/wapi/v2.7/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" }} | | |

### 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://127.0.0.1/wapi/v2.7/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": "infoblow.com", "rpz\_policy": "SUBSTITUTE", "rpz\_severity": "WARNING", "substitute\_name": "infoblox.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_rp?\_return\_fields%2B=fqdn,rpz\_policy,rpz\_severity,substitute\_name&\_return\_as\_object=1" -d '{"fqdn": "infoblow.com","rpz\_policy": "SUBSTITUTE","rpz\_severity": "WARNING","substitute\_name": "infoblox.com"}' | | |
| {"result":   {"\_ref": "zone\_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdw:infoblow.com/default",  "fqdn": "infoblow.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.infoblow.com", "ipv4addr":"1.1.1.156", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:a?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"server.infoblow.com","ipv4addr":"1.1.1.156","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm9ibG93LHNlcnZlciwxLjEuMS4xNTY:server.infoblow.com/default",  "ipv4addr": "1.1.1.156",  "name": "server.infoblow.com",  "rp\_zone": "infoblow.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.infoblow.com ", "ipv4addr":"10.10.10.135", "ptrdname": "infoblow.com", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:ptr?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name": "135.10.10.10.in-addr.arpa.infoblow.com ","ipv4addr":"10.10.10.135","ptrdname": "infoblow.com","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cuYXJwYS5pbi1hZGRyLjEwLjEwLjEwLjEzNS5pbmZvYmxvdy5jb20:135.10.10.10.in-addr.arpa.infoblow.com/default",  "name": "135.10.10.10.in-addr.arpa.infoblow.com",  "ptrdname": "infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a substitution rule for IP trigger policy | POST | <wapi\_url>/record:rpz:a:ipaddress | {"name":"1.1.1.6.infoblow.com", "ipv4addr":"2.2.2.6", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:a:ipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"1.1.1.6.infoblow.com","ipv4addr":"2.2.2.6","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:a:ipaddress/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm9ibG93LHJwei1pcC4xLjEuMS42LjMyLDIuMi4yLjY:1.1.1.6.infoblow.com/default",  "ipv4addr": "2.2.2.6",  "name": "1.1.1.6.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block Domain Name (No Such Domain) Rule | POST | <wapi\_url>/record:rpz:cname | {"name":"test.infoblow.com", "canonical":"", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"test.infoblow.com","canonical":"","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy50ZXN0:test.infoblow.com/default",  "canonical": "",  "name": "test.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block Domain Name (No Data) Rule | POST | <wapi\_url>/record:rpz:cname | {"name":"demo.infoblow.com", "canonical":"\*", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"demo.infoblow.com","canonical":"\*","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5kZW1v:demo.infoblow.com/default",  "canonical": "\*",  "name": "demo.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Passthru Domain Name Rule | POST | <wapi\_url>/record:rpz:cname | {"name":"pass.infoblow.com", "canonical":"pass.infoblow.com", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"pass.infoblow.com","canonical":"pass.infoblow.com","rp\_zone":"infoblow.com"}' | | |
| {"result":   { "\_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5wYXNz:pass.infoblow.com/default",  "canonical": "pass.infoblow.com",  "name": "pass.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default"  }} | | |
| Add a Substitute Domain Name Rule | POST | <wapi\_url>/record:rpz:cname | {"name":"sub.infoblow.com", "canonical":"test", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"sub.infoblow.com","canonical":"test","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5zdWI:sub.infoblow.com/default",  "canonical": "test",  "name": "sub.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block Client IP Address (No Such Domain) Rule | POST | <wapi\_url>/record:rpz:cname:clientipaddress | {"name":"10.10.10.200.infoblow.com", "canonical":"", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"10.10.10.200.infoblow.com","canonical":"","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIwMC4zMg:10.10.10.200.infoblow.com/default",  "canonical": "",  "name": "10.10.10.200.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block Client IP Address (No Data) Rule | POST | <wapi\_url>/record:rpz:cname:clientipaddress | {"name":"10.10.10.210.infoblow.com", "canonical":"\*", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"10.10.10.210.infoblow.com","canonical":"\*","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIxMC4zMg:10.10.10.210.infoblow.com/default",  "canonical": "\*",  "name": "10.10.10.210.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Passthru Client IP Address Rule | POST | <wapi\_url>/record:rpz:cname:clientipaddress | {"name":"10.10.10.220.infoblow.com", "canonical":"rpz-passthru", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"10.10.10.220.infoblow.com","canonical":"rpz-passthru","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIyMC4zMg:10.10.10.220.infoblow.com/default",  "canonical": "rpz-passthru",  "name": "10.10.10.220.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Substitute Domain Name (Client IP Address) Rule | POST | <wapi\_url>/record:rpz:cname:clientipaddressdn | {"name":"10.10.10.230.infoblow.com", "canonical":"test", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddressdn?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"10.10.10.230.infoblow.com","canonical":"test","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:clientipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIzMC4zMg:10.10.10.230.infoblow.com/default",  "canonical": "test",  "name": "10.10.10.230.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block IP Address (No Such Domain) Rule | POST | <wapi\_url>/record:rpz:cname:ipaddress | {"name":"5.5.5.10.infoblow.com", "canonical":"", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:ipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"5.5.5.10.infoblow.com","canonical":"","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotaXAuNS41LjUuMTAuMzI:5.5.5.10.infoblow.com/default",  "canonical": "",  "name": "5.5.5.10.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Block IP Address (No Data) Rule | POST | <wapi\_url>/record:rpz:cname:ipaddress | {"name":"5.5.5.25.infoblow.com", "canonical":"\*", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:ipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"5.5.5.25.infoblow.com","canonical":"\*","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotaXAuNS41LjUuMjUuMzI:5.5.5.25.infoblow.com/default",  "canonical": "\*",  "name": "5.5.5.25.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Passthru IP Address Rule | POST | <wapi\_url>/record:rpz:cname:ipaddress | {"name":"5.5.5.100.infoblow.com", "canonical":"5.5.5.100", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:ipaddress?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"5.5.5.100.infoblow.com","canonical":"5.5.5.100","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotaXAuNS41LjUuMTAwLjMy:5.5.5.100.infoblow.com/default",  "canonical": "5.5.5.100",  "name": "5.5.5.100.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Add a Substitute Domain Name (IP Address) Rule | POST | <wapi\_url>/record:rpz:cname:ipaddressdn | {"name":"5.5.5.200.infoblow.com", "canonical":"test", "rp\_zone":"infoblow.com"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:ipaddressdn?\_return\_fields%2B=name,rp\_zone&\_return\_as\_object=1" -d '{"name":"5.5.5.200.infoblow.com","canonical":"test","rp\_zone":"infoblow.com"}' | | |
| {"result":   {"\_ref": "record:rpz:cname:ipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5ycHotaXAuNS41LjUuMjAwLjMy:5.5.5.200.infoblow.com/default",  "canonical": "test",  "name": "5.5.5.200.infoblow.com",  "rp\_zone": "infoblow.com",  "view": "default" }} | | |
| Fetch all objects belonging to a RPZ | GET | <wapi\_url>/allrpzrecords?zone=infoblow.com |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/allrpzrecords?zone=infoblow.com&\_return\_fields%2B=rpz\_rule&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdyxycHotaXAuMS4xLjEuNi4zMiwyLjIuMi42:1.1.1.6",  "comment": "",  "name": "1.1.1.6",  "rpz\_rule": "SubstituteIPv4AddressRecord",  "type": "record:rpz:a:ipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwLjMy:5.5.5.10",  "comment": "",  "name": "5.5.5.10",  "rpz\_rule": "BlockNxdomainIpaddr",  "type": "record:rpz:cname:ipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjI1LjMy:5.5.5.25",  "comment": "",  "name": "5.5.5.25",  "rpz\_rule": "BlockNoDataIpaddr",  "type": "record:rpz:cname:ipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwMC4zMg:5.5.5.100",  "comment": "",  "name": "5.5.5.100",  "rpz\_rule": "PassthruIpaddr",  "type": "record:rpz:cname:ipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjIwMC4zMg:5.5.5.200",  "comment": "",  "name": "5.5.5.200",  "rpz\_rule": "SubstituteIPAddressCname",  "type": "record:rpz:cname:ipaddressdn",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMDAuMzI:10.10.10.200",  "comment": "",  "name": "10.10.10.200",  "rpz\_rule": "BlockNxdomainClientIpaddr",  "type": "record:rpz:cname:clientipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMTAuMzI:10.10.10.210",  "comment": "",  "name": "10.10.10.210",  "rpz\_rule": "BlockNoDataClientIpaddr",  "type": "record:rpz:cname:clientipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMjAuMzI:10.10.10.220",  "comment": "",  "name": "10.10.10.220",  "rpz\_rule": "PassthruClientIpaddr",  "type": "record:rpz:cname:clientipaddress",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMzAuMzI:10.10.10.230",  "comment": "",  "name": "10.10.10.230",  "rpz\_rule": "SubstituteClientIPAddressCname",  "type": "UNSUPPORTED",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3B0ciQuX2RlZmF1bHQuY29tLmluZm9ibG93LmFycGEuaW4tYWRkci4xMC4xMC4xMC4xMzUuaW5mb2Jsb3cuY29t:135.10.10.10.in-addr.arpa",  "comment": "",  "name": "135.10.10.10.in-addr.arpa",  "rpz\_rule": "SubstitutePTRRecord",  "type": "record:rpz:ptr",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cuZGVtbw:demo",  "comment": "",  "name": "demo",  "rpz\_rule": "BlockNoDataDomain",  "type": "record:rpz:cname",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cucGFzcw:pass",  "comment": "",  "name": "pass",  "rpz\_rule": "SubstituteCName",  "type": "record:rpz:cname",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdyxzZXJ2ZXIsMS4xLjEuMTU2:server",  "comment": "",  "name": "server",  "rpz\_rule": "SubstituteARecord",  "type": "record:rpz:a",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cuc3Vi:sub",  "comment": "",  "name": "sub",  "rpz\_rule": "SubstituteCName",  "type": "record:rpz:cname",  "view": "default",  "zone": "infoblow.com"  },  {"\_ref": "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cudGVzdA:test",  "comment": "",  "name": "test",  "rpz\_rule": "BlockNxdomainDomain",  "type": "record:rpz:cname",  "view": "default",  "zone": "infoblow.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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",  "name": "test-pool"  "servers":   [{"ratio": 4,  "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server" }]}} | | |
| Modify to add another server | PUT | <wapi\_url>/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool | {"servers":   [{"ratio": 4,  "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"  },  {"ratio": 4,  "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",  "name": "test-pool",  "servers":   [{"ratio": 4,  "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"  },  {"ratio": 4,  "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2" }]}} | | |
| DTC Load Balanced Domain Name | Fetch information | GET | <wapi\_url>/dtc:lbdn |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/dtc:lbdn?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiRMQkROX1RFTVBOQU1FXzIyMTI3:LBDN\_TEMPNAME\_22127",  "name": "LBDN\_TEMPNAME\_22127" }]} | | |
| Create | POST | <wapi\_url>/dtc:lbdn | {"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"}]} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"}]}' | | |
| {"result":   {"\_ref": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiR0ZXN0LWxiZG4:test-lbdn",  "auth\_zones":   ["zone\_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],  "name": "test-lbdn",  "patterns":   ["server.dtc.com"],  "pools":   [{"pool": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",  "ratio": 4 }]}} | | |

## 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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",  "network\_view": "default" }} | | |
| Add a network from next available network | POST | <wapi\_url>/network | {"network": "func:nextavailablenetwork:10.0.0.0/8,default,24", "network\_view":"default", "extattrs": {"Country":{"value":"UK"}, "Region":{"value":"EMEA"}}} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"}}}' | | |
| {"result":  {"\_ref": "network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default",  "extattrs":   {"Country": {"value": "UK"},  "Region": {"value": "EMEA"}  },  "members": [],  "network": "10.0.0.0/24",  "network\_view": "default"  }} | | |

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://127.0.0.1/wapi/v2.7/network?network=172.21.10.0/24&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default",  "network": "172.21.10.0/24",  "network\_view": "default" }]} | |
| 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://127.0.0.1/wapi/v2.7/network?network~=192.168&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default",  "network": "192.168.1.0/24",  "network\_view": "default"  },  {"\_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMDEuMC8yNC8w:192.168.101.0/24/default",  "network": "192.168.101.0/24",  "network\_view": "default"  }]} | |
| Search for network(s) based on the netmask (/27) | GET | <wapi\_url>/network?network~=.0/27 |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/network?network~=.0/27&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjcvMA:10.10.100.0/27/default",  "network": "10.10.100.0/27",  "network\_view": "default"  },  {"\_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNy8x:1.1.1.0/27/demo",  "network": "1.1.1.0/27",  "network\_view": "demo" }]} | |
| Search by EA (Networks in the UK) | GET | <wapi\_url>/network?\_return\_fields%2B=extattrs&\*Country:=UK |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/network?\_return\_fields%2B=extattrs&\*Country%3A=UK&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default",  "extattrs":   {"Country": {"value": "UK"},  "Region": {"value": "EMEA"}},  "network": "10.0.0.0/24",  "network\_view": "default"  },  {"\_ref": "network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default",  "extattrs": {"Country": {"value": "UK"}},  "network": "10.1.0.0/16",  "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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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"  ]}} | | |

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://127.0.0.1/wapi/v2.7/ipv4address?network=10.10.10.0/24&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUzLzA:10.10.10.1",  "ip\_address": "10.10.10.1",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "UNUSED",  "types": [],  "usage": []  },  {"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.2",  "ip\_address": "10.10.10.2",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "UNUSED",  "types": [],  "usage": []  },  ….  {"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU1LzA:10.10.10.255",  "ip\_address": "10.10.10.255",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "USED",  "types": ["BROADCAST"],  "usage": [] }]} | |
| Get addresses in a given range | GET | <wapi\_url>/ipv4address?ip\_address>=10.10.10.252&&ip\_address<=10.10.10.254 |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/ipv4address?ip\_address%3E=10.10.10.252&ip\_address%3C=10.10.10.254&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUyLzA:10.10.10.252",  "ip\_address": "10.10.10.252",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "UNUSED",  "types": [],  "usage": []  },  {"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUzLzA:10.10.10.253",  "ip\_address": "10.10.10.253",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "UNUSED",  "types": [],  "usage": []  },  {"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.254",  "ip\_address": "10.10.10.254",  "is\_conflict": false,  "mac\_address": "",  "names": [],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects": [],  "status": "UNUSED",  "types": [],  "usage": [] }]} | |

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://127.0.0.1/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default?\_return\_fields%2B=zone\_associations&\_return\_as\_object=1" | | |
| {"result":   {"\_ref": "network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default",  "network": "10.1.0.0/16",  "network\_view": "default",  "zone\_associations":   [{"fqdn": "info.com",  "is\_default": true,  "view": "default" }]}} | | |
| 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://127.0.0.1/wapi/v2.7/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":   {"\_ref": "network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default",  "network": "172.21.10.0/24",  "network\_view": "default",  "zone\_associations":   [{"fqdn": "test.com",  "is\_default": true,  "view": "default" }]}} | | |

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://127.0.0.1/wapi/v2.7/fixedaddress?\_return\_fields%2B=ipv4addr,mac&\_return\_as\_object=1" -d '{"ipv4addr":"192.168.1.100","mac":"aa:bb:cc:11:22:21"}' | | |
| {"result":   {"\_ref": "fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/default",  "ipv4addr": "192.168.1.100",  "mac": "aa:bb:cc:11:22:21",  "network\_view": "default" }} | | |
| 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://127.0.0.1/wapi/v2.7/fixedaddress?\_return\_fields%2B=ipv4addr,mac&\_return\_as\_object=1" -d '{"ipv4addr":"172.26.1.200","mac":"00:00:00:00:00:00"}' | | |
| {"result":   {"\_ref": "fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTcyLjI2LjEuMjAwLjAuLg:172.26.1.200/default",  "ipv4addr": "172.26.1.200",  "mac": "00:00:00:00:00:00",  "network\_view": "default" }} | | |
| Add a fixed address with next vailable IP | POST | <wapi\_url>/fixedaddress?\_return\_fields=ipv4addr | {"ipv4addr": "func:nextavailableip:10.1.0.0/16", "mac":"ff:ff:ff:ff:ff:ff"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTAuMS4wLjEuMC4u:10.1.0.1/default",  "ipv4addr": "10.1.0.1",  "mac": "ff:ff:ff:ff:ff:ff",  "network\_view": "default" }} | | |

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://127.0.0.1/wapi/v2.7/fixedaddress?\_return\_fields%2B=mac&mac=aa:bb:cc:11:22:21&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/default",  "ipv4addr": "192.168.1.100",  "mac": "aa:bb:cc:11:22:21",  "network\_view": "default" }]} | |

### 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://127.0.0.1/wapi/v2.7/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": [] }]} | |

### Search for any object with an IP address

|  |  |  |
| --- | --- | --- |
| **Operation** | **REST Method** | **API Call** |
| **Sample cURL Command** | |
| **Sample Output** | |
| Search objects with an IP | GET | <wapi\_url>/ipv4address?status=USED&ip\_address=10.10.10.20 |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/ipv4address?status=USED&ip\_address=10.10.10.20&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20",  "ip\_address": "10.10.10.20",  "is\_conflict": false,  "mac\_address": "",  "names": ["host1.info.com"],  "network": "10.10.10.0/24",  "network\_view": "default",  "objects":   ["record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default"],  "status": "USED",  "types": [ "HOST" ],  "usage": [ "DNS" ]  }]} | |

### 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://127.0.0.1/wapi/v2.7/search?address=172.26.1.100&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",  "ipv4addr": "172.26.1.100",  "name": "host.test.info.com",  "view": "default"  },  {"\_ref": "network/ZG5zLm5ldHdvcmskMTcyLjI2LjEuMC8yNC8w:172.26.1.0/24/default",  "network": "172.26.1.0/24",  "network\_view": "default" }]} | |

### 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/view?\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "view/ZG5zLnZpZXckLl9kZWZhdWx0:default/true",  "is\_default": true,  "name": "default"  },  {"\_ref": "view/ZG5zLnZpZXckLjE:default.test/false",  "is\_default": false,  "name": "default.test"  },  {"\_ref": "view/ZG5zLnZpZXckLjI:default.cloud/false",  "is\_default": false,  "name": "default.cloud" }]} | | | |
| Get authoritative zones for a DNS view | GET | <wapi\_url>/zone\_auth?view=default.test | |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone\_auth?view=default.test&\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "zone\_auth/ZG5zLnpvbmUkLjEuY29tLmluZm8:info.com/default.test",  "fqdn": "info.com",  "view": "default.test"  },  {"\_ref": "zone\_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test",  "fqdn": "test.org",  "view": "default.test" }]} | | | |
| Get all records for a zone in a DNS view | GET | <wapi\_url>/record:host?zone=info.com&view=default.test | |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?zone=info.com&view=default.test&\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8uc2VydmVy:server.info.com/default.test",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5zZXJ2ZXIuMTAuMTAuMC4xMDAu:10.10.0.100/server.info.com/default.test",  "configure\_for\_dhcp": false,  "host": "server.info.com",  "ipv4addr": "10.10.0.100"  }],  "name": "server.info.com",  "view": "default.test"  },  {"\_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS4xLjEwMC4:10.1.1.100/mailer.info.com/default.test",  "configure\_for\_dhcp": false,  "host": "mailer.info.com",  "ipv4addr": "10.1.1.100",  "mac": "aa:bb:cc:11:22:33"  }],  "name": "mailer.info.com",  "view": "default.test"  }]} | | | |
| Get all network views | GET | <wapi\_url>/networkview | |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/networkview?\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default/true",  "is\_default": true,  "name": "default"  },  {"\_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:test/false",  "is\_default": false,  "name": "test"  },  {"\_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQy:cloud/false",  "is\_default": false,  "name": "cloud"  }]} | | | |
| Create a network view | POST | | <wapi\_url>/networkview | {"name": "demo"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/networkview?\_return\_fields%2B=name&\_return\_as\_object=1" -d '{"name": "demo"}' | | | |
| {"result":   {"\_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:demo/false",  "is\_default": false,  "name": "demo" }} | | | |
| Create an authoritative zone within a network view | POST | | <wapi\_url>/zone\_auth | {"fqdn": "infoblox.com", "view": "default.test"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone\_auth?\_return\_fields%2B=fqdn,network\_view&\_return\_as\_object=1" -d '{"fqdn": "infoblox.com","view": "default.test"}' | | | |
| {"result":   {"\_ref": "zone\_auth/ZG5zLnpvbmUkLjEuY29tLmluZm9ibG94:infoblox.com/default.test",  "fqdn": "infoblox.com",  "network\_view": "test"  "view": "default.test" }} | | | |
| Create a host record within a network view | POST | | <wapi\_url>/record:host | {"name":"host.infoblox.com", "ipv4addrs":  [{"ipv4addr":"10.10.10.20"}], "view": "default.test"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"}' | | | |
| {"result":   {"\_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm9ibG94Lmhvc3Q:host.infoblox.com/default.test",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mb2Jsb3guaG9zdC4xMC4xMC4xMC4yMC4:10.10.10.20/host.infoblox.com/default.test",  "configure\_for\_dhcp": false,  "host": "host.infoblox.com",  "ipv4addr": "10.10.10.20"  }],  "name": "host.infoblox.com",  "network\_view": "test",  "view": "default.test" }} | | | |
| Add a network within a network view | POST | | <wapi\_url>/network | {"network": "192.168.1.0/24", "network\_view": "test"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/network?\_return\_fields%2B=network&\_return\_as\_object=1 " -d '{"network": "192.168.1.0/24","network\_view": "test"}' | | | |
| {"result":   {"\_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMQ:192.168.1.0/24/test",  "network": "192.168.1.0/24",  "network\_view": "test" }} | | | |

## 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://127.0.0.1/wapi/v2.7/range?\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "range/ZG5zLmRoY3BfcmFuZ2UkMTkyLjE2OC4xLjEwLzE5Mi4xNjguMS4xNS8vLzAv:192.168.1.10/192.168.1.15/default",  "end\_addr": "192.168.1.15",  "network": "192.168.1.0/24",  "network\_view": "default",  "start\_addr": "192.168.1.10" }]} | | |
| Add a DHCP range | POST | <wapi\_url>/range | {"start\_addr": "10.10.10.20", "end\_addr": "10.10.10.100", "server\_association\_type": "MEMBER", "member":{"\_struct": "dhcpmember", "ipv4addr" : "172.26.1.3"}} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMjAvMTAuMTAuMTAuMTAwLy8vMC8:10.10.10.20/10.10.10.100/default",  "end\_addr": "10.10.10.100",  "member":   {"\_struct": "dhcpmember",  "ipv4addr": "172.26.1.3",  "ipv6addr": null,  "name": "member1.localdomain"  },  "network": "10.10.10.0/24",  "network\_view": "default",  "start\_addr": "10.10.10.20" }} | | |
| Add a DHCP range reserved range | POST | <wapi\_url>/range | {"start\_addr": "172.26.1.20", "end\_addr": "172.26.1.100"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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":   {"\_ref": "range/ZG5zLmRoY3BfcmFuZ2UkMTcyLjI2LjEuMjAvMTcyLjI2LjEuMTAwLy8vMC8:172.26.1.20/172.26.1.100/default",  "end\_addr": "172.26.1.100",  "network": "172.26.1.0/24",  "network\_view": "default",  "start\_addr": "172.26.1.20" }} | | |

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://127.0.0.1/wapi/v2.7/range?\_return\_fields%2B=extattrs&\*Location:=Bangalore&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMTUwLzEwLjEwLjEwLjIwMC8vLzEv:10.10.10.150/10.10.10.200/test",  "end\_addr": "10.10.10.200",  "extattrs": {"Location": {"value": "Bangalore"}},  "network": "10.10.10.0/24",  "network\_view": "test",  "start\_addr": "10.10.10.150" }]} | |

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://127.0.0.1/wapi/v2.7/lease?\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4yMDAvMC8:10.10.10.200/test",  "address": "10.10.10.200",  "network\_view": "test"  },  {"\_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4xOTUvMC8:192.168.1.100/default",  "address": "192.168.1.100",  "network\_view": "default"  },  ……  {"\_ref": "lease/ZG5zLmxlYXNlJDAvMTAuMTAuMC4xOTEvMC8:10.10.10.191/default",  "address": "10.10.10.191",  "network\_view": "default"  }]} | |
| 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://127.0.0.1/wapi/v2.7/lease?address=172.26.1.250&\_return\_fields=binding\_state,hardware,client\_hostname,fingerprint&\_max\_results=1&\_return\_as\_object=1" | |
| {"result":  [{"\_ref": "lease/ZG5zLmxlYXNlJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1",  "binding\_state": "ACTIVE",  "fingerprint": "Cisco/Linksys SPA series IP Phone",  "hardware": "16:55:a4:1b:98:c9" }]} | |
| 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 -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/lease?client\_hostname~=demo&\_max\_results=1&\_return\_fields=binding\_state,hardware,client\_hostname,fingerprint&\_return\_as\_object=1" | |
| {"result":   [{"\_ref": "lease/ZG5zLmxlYXNlJC8xOTIuMTY4LjQuMy8wLzE3:192.168.4.3/Company%201",  "binding\_state": "STATIC",  "client\_hostname": "test",  "hardware": "12:34:56:78:91:23" }]} | |

## 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://127.0.0.1/wapi/v2.7/grid" | |
| {"result":   [{"\_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox"}]} | |

### 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.

|  |  |  |  |
| --- | --- | --- | --- |
| **Operation** | **REST Method** | **API Call** | **Sample Body** |
| **Sample cURL Command** | | |
| **Sample Output** | | |
| Get grid DNS properties | GET | <wapi\_url>/grid:dns?\_return\_fields%2B=max\_cached\_lifetime |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/grid:dns?\_return\_fields%2B=max\_cached\_lifetime&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",  "max\_cached\_lifetime": 86400 }]} | | |
| Modify grid DNS properties (max\_cached\_lifetime) at the Grid level | PUT | <wapi\_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?\_return\_fields%2B=max\_cached\_lifetime | {"max\_cached\_lifetime":60000} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?\_return\_fields%2B=max\_cached\_lifetime&\_return\_as\_object=1" -d '{"max\_cached\_lifetime":60000}' | | |
| {"result":   {"\_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox",  "max\_cached\_lifetime": 60000  }} | | |
| Get member DNS properties | GET | <wapi\_url>/member:dns?\_return\_fields%2B=max\_cached\_lifetime |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/member:dns?\_return\_fields%2B=max\_cached\_lifetime&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain",  "host\_name": "infoblox.localdomain",  "ipv4addr": "172.26.1.2",  "max\_cached\_lifetime": 86400  },  {"\_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain",  "host\_name": "member1.localdomain",  "ipv4addr": "172.26.1.3",  "max\_cached\_lifetime": 86400 }]} | | |
| Modify grid 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://127.0.0.1/wapi/v2.7/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 }]} | | |

### 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://127.0.0.1/wapi/v2.7/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 node information for all members | GET | <wapi\_url>/member?\_return\_fields%2B=node\_info |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/member?\_return\_fields%2B=node\_info&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",  "config\_addr\_type": "IPV4",  "host\_name": "infoblox.localdomain",  "node\_info":   [{"ha\_status": "NOT\_CONFIGURED",  "hwid": "42017879A14D4EE9E59F6ABEC0E8F729",  "hwmodel": "",  "hwplatform": "VMWARE",  "hwtype": "IB-V815",  "lan2\_physical\_setting": {"auto\_port\_setting\_enabled": true},  "lan\_ha\_port\_setting":   {"ha\_port\_setting":   {"auto\_port\_setting\_enabled": true,  "speed": "10"},  "lan\_port\_setting": {"auto\_port\_setting\_enabled": true}  },  "mgmt\_physical\_setting": {"auto\_port\_setting\_enabled": true},  "paid\_nios": false,  "physical\_oid": "0",  "service\_status":   [{"description": "Running",  "service": "NODE\_STATUS",  "status": "WORKING"  },  {"description": "2% - Primary drive usage is OK.",  "service": "DISK\_USAGE",  "status": "WORKING"  },  {"description": "172.26.1.2",  "service": "ENET\_LAN",  "status": "WORKING"  },  {"description": "7% - Database capacity usage is OK.",  "service": "DB\_OBJECT",  "status": "WORKING"  },  {"service": "NTP\_SYNC",  "status": "INACTIVE"  },  …..  {"service": "VPN\_CERT",  "status": "WORKING"  }],  "v6\_mgmt\_network\_setting":   {"auto\_router\_config\_enabled": false,  "enabled": false  }}],  ......} | | |
| Get Service Status for all members | GET | <wapi\_url>/member?\_return\_fields%2B=service\_status |  |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/member?\_return\_fields%2B=service\_status&\_return\_as\_object=1" | | |
| {"result":   [{"\_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",  "config\_addr\_type": "IPV4",  "host\_name": "infoblox.localdomain",  "platform": "VNIOS",  "service\_status":   [{"description": "DHCP Service is working",  "service": "DHCP",  "status": "WORKING"  },  {"description": "DNS Service is working",  "service": "DNS",  "status": "WORKING"  },  {"description": "NTP Service is working",  "service": "NTP",  "status": "WORKING"  },  {"description": "Hard Disk: 0% - TFTP Service is inactive",  "service": "TFTP",  "status": "INACTIVE"  },  {"description": "Hard Disk: 0% - HTTP File Dist Service is inactive",  "service": "HTTP\_FILE\_DIST",  "status": "INACTIVE"  },  {"description": "Hard Disk: 0% - FTP Service is inactive",  "service": "FTP",  "status": "INACTIVE"  },  {"description": "CPU: 100%, Memory: 0%, Hard Disk: 0%",  "service": "BLOXTOOLS",  "status": "INACTIVE"  },  {"description": "Captive Portal Service is inactive",  "service": "CAPTIVE\_PORTAL",  "status": "INACTIVE"  },  {"service": "HSM",  "status": "UNKNOWN"  }],  "service\_type\_configuration": "ALL\_V4"  },  … ]} | | |
| 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://127.0.0.1/wapi/v2.7/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain?\_return\_as\_object=1" -d '{"enable\_dhcp":true}' | | |
| {"result": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain"} | | |

### 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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/grid:servicerestart:request:changedobject" | | |

In the above examples, in the *service\_option* you can replace *ALL* with *DNS* or *DHCP*

### 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://127.0.0.1/wapi/v2.7/vdiscoverytask?\_return\_as\_object=1" | | | |
| {"result":   [{"\_ref": "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBenVyZSB2RGlzY292ZXJ5:Azure%20vDiscovery",    "name": "Azure vDiscovery",    "state": "WARNING"   },  {"\_ref":  "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBV1MgdkRpc2NvdmVyeQ:AWS%20vDiscovery",   "name": "AWS vDiscovery",   "state": "WARNING"  },   {"\_ref": "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRWTXdhcmUgdkRpc2NvdmVyeQ:VMware%20vDiscovery",   "name": "VMware vDiscovery",   "state": "WARNING"  },  {"\_ref": "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRPcGVuc3RhY2sgdkRpc2NvdmVyeQ:Openstack%20vDiscovery",    "name": "Openstack vDiscovery",    "state": "WARNING" }]} | | | |
| Create a vDiscovery Task to discover the AWS environment | POST | <wapi\_url>/vdiscoverytask | | '{"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}}' |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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}}' | | | |
| {"result":   {"\_ref": "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlYzIuZXUtd2VzdC0x:ec2.eu-west-1",  "driver\_type": "AWS",  "name": "ec2.eu-west-1"  }} | | | |
| Start a vDiscovery task | POST | | <wapi\_url>/vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlYzIuZXUtd2VzdC0x:ec2.eu-west-1?\_function=vdiscover\_control | {"action":"START"} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5kaGNwX21hY19maWx0ZXJfcGFyZW50JDAuLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%20Admin/WRITE",  "permission": "WRITE",  "resource\_type": "DHCP\_MAC\_FILTER",  "role": "DHCP Admin"  },  …..  {"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5yb2xlJERIQ1AgQWRtaW4u:DHCP%20Admin/WRITE",  "permission": "WRITE",  "resource\_type": "GRID\_DHCP\_PROPERTIES",  "role": "DHCP Admin" }]} | |
| Get permissions for a group | GET | <wapi\_url>/permission?group=cloud-api-only |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/permission?group=cloud-api-only" | |
| {"result":   [{"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5hZG1pbl9ncm91cCQuY2xvdWQtYXBpLW9ubHku:cloud-api-only/WRITE",  "group": "cloud-api-only",  "permission": "WRITE",  "resource\_type": "GRID\_DHCP\_PROPERTIES"  },  {"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy50ZW5hbnRfcGFyZW50JGFsbC4uLmNvbS5pbmZvYmxveC5vbmUuYWRtaW5fZ3JvdXAkLmNsb3VkLWFwaS1vbmx5Lg:cloud-api-only/WRITE",  "group": "cloud-api-only",  "permission": "WRITE",  "resource\_type": "TENANT"  },  {"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",  "group": "cloud-api-only",  "permission": "WRITE",  "resource\_type": "NETWORK\_VIEW"  },  {"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",  "group": "cloud-api-only",  "permission": "WRITE",  "resource\_type": "GRID\_DNS\_PROPERTIES" }]} | |

### Export a database backup

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://127.0.0.1/wapi/v2.7/fileop?\_function=getgriddata" -d '{"type": "BACKUP"}' | | |
| {"token": "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqKdww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLI6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/lA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktIaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b9l3Hsn6\nS8JPEyI5m7ENY33xBbQAllA=\n",  "url": "https://127.0.0.1/http\_direct\_file\_io/req\_id-DOWNLOAD-1001/database.bak" } | | |
| Download the backup | GET | <url\_from\_the\_previous\_output> Example: 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://127.0.0.1/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://127.0.0.1/wapi/v2.7/fileop?\_function=downloadcomplete" -d '{"token" : "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqKdww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLI6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/lA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktIaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b9l3Hsn6\nS8JPEyI5m7ENY33xBbQAllA=\n"}' | | |

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

### 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 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 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://127.0.0.1/wapi/v2.7/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://127.0.0.1.2/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://127.0.0.1/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": "eJyIUM..o="} |
| curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/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://127.0.0.1/wapi/v2.7/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.

### 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.

|  |  |  |  |
| --- | --- | --- | --- |
| **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://127.0.0.1/wapi/v2.7/fileop?\_function=uploadinit" | | |
| {"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" } | | |
| Upload contents of a CA certificate | POST | <url\_from\_the\_previous\_output> Example: https://x.x.x.x/http\_direct\_file\_io/req\_id-UPLOAD-1001/import\_file | file=@ca.cert.pem |
| curl -k -u admin:Infoblox -H 'content-type:multipart-formdata' "https://127.0.0.1/http\_direct\_file\_io/req\_id-UPLOAD-1001/import\_file" -F file=@ca.cert.pem | | |
| Upload the CA Certificate | POST | <wapi\_url>/fileop?\_function=uploadcertificate | {"certificate\_usage":"EAP\_CA", "member": "infoblox.localdomain", "token":"eJydk..=="} |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"}' | | |

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](https://support.infoblox.com/).

|  |  |  |  |
| --- | --- | --- | --- |
| **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://127.0.0.1/wapi/v2.7/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-formdata' "https://127.0.0.1/ 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://127.0.0.1/wapi/v2.7/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"}' | | |

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

## 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://127.0.0.1/wapi/v2.7/record:host?\_paging=1&\_return\_as\_object=1&\_max\_results=4" | |
| {"next\_page\_id": "-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371", "result":   [{"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xMC4xMC4xMC4yMC4:10.10.10.20/host.info.com/default",  "configure\_for\_dhcp": false,  "host": "host.info.com",  "ipv4addr": "10.10.10.20"  }],  "name": "host.info.com",  "view": "default"  },  {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLnNlcnZlcjE:server1.demo.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmRlbW8uc2VydmVyMS4xLjEuMS4yNS4:1.1.1.25/server1.demo.com/default",  "configure\_for\_dhcp": false,  "host": "server1.demo.com",  "ipv4addr": "1.1.1.25"  }],  "name": "server1.demo.com",  "view": "default"  },  {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLm1vbml0b3I:monitor.demo.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmRlbW8ubW9uaXRvci4xLjEuMS41MC4:1.1.1.50/monitor.demo.com/default",  "configure\_for\_dhcp": false,  "host": "monitor.demo.com",  "ipv4addr": "1.1.1.50"  }],  "name": "monitor.demo.com",  "view": "default"  },  {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8udGVzdC4yLjIuMi4xMTAu:2.2.2.110/test.info.com/default",  "configure\_for\_dhcp": false,  "host": "test.info.com",  "ipv4addr": "2.2.2.110"  }],  "name": "test.info.com",  "view": "default" }]} | |
| Query the next set of records | GET | <wapi\_url>/record:host?\_paging=1&\_return\_as\_object=1&\_page\_id=-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371 |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?\_paging=1&\_return\_as\_object=1&\_page\_id=-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371" | |
| {"next\_page\_id": "-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"  }],  "name": "e2.info.com",  "view": "default"  },  {"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmRldnN0YWNr:devstack.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZGV2c3RhY2suMTcyLjI2LjEuMjAu:172.26.1.20/devstack.info.com/default",  "configure\_for\_dhcp": false,  "host": "devstack.info.com",  "ipv4addr": "172.26.1.20"  }],  "name": "devstack.info.com",  "view": "default" }]} | |
| Query the next set of records | GET | <wapi\_url>/record:host?\_paging=1&\_return\_as\_object=1&\_page\_id=-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e |
| curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?\_paging=1&\_return\_as\_object=1&\_page\_id=-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e" | |
| {"result":  [{"\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnJvdXRlcg:router.info.com/default",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucm91dGVyLjEwMC4xMC4xMC4xLg:100.10.10.1/router.info.com/default",  "configure\_for\_dhcp": false,  "host": "router.info.com",  "ipv4addr": "100.10.10.1"  }],  "name": "router.info.com",  "view": "default" }]} | |

## 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", "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": {}}] |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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",  "configure\_for\_dns": true,  "dns\_name": "host1.test.com",  "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/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",  "configure\_for\_dns": true,  "dns\_name": "mailer.info.com",  "ipv4addrs":   [{"\_ref": "record:host\_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS4xLjEwMC4:10.1.1.100/mailer.info.com/default.test",  "configure\_for\_dhcp": false,  "host": "mailer.info.com",  "ipv4addr": "10.1.1.100",  "mac": "aa:bb:cc:11:22:33"  }],  "name": "mailer.info.com"  }],  [{"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.com/default",  "ipv4addr": "172.26.1.100",  "name": "host.test.info.com",  "view": "default"  },  {"\_ref": "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",  "ipv4addr": "10.10.10.2",  "name": "server.info.com",  "view": "default"  }],  [{"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHIuMTI3LjAuMC4xLmxvY2FsaG9zdA:1.0.0.127.in-addr.arpa/default",  "ptrdname": "localhost",  "view": "default"  },  ….  {"\_ref": "record:ptr/ZG5zLmJpbmRfcHRyJC4yLmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4ubG9jYWxob3N0:1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa/default.cloud",  "ptrdname": "localhost",  "view": "default.cloud"  }]] | | |

### Delete a host record

|  |  |  |  |
| --- | --- | --- | --- |
| **Operation** | **REST Method** | **API Call** | **Sample Body** |
| **Sample cURL Command** | | |
| **Sample Output** | | |
| Delete a Host record | POST | <wapi\_url>/request | [{"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"}] |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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",  "host\_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default" }] | | |

### Get next available IP address

|  |  |  |  |
| --- | --- | --- | --- |
| **Operation** | **REST Method** | **API Call** | **Sample Body** |
| **Sample cURL Command** | | |
| **Sample Output** | | |
| Get next available IP address | POST | <wapi\_url>/request | [{"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}] |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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"]}] | | |

### 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://127.0.0.1/wapi/v2.7/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"}] | | |

### 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",  "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"}] |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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",  {"host\_ref": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain",  "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", "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"}] |
| curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/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",  "permission": "WRITE",  "resource\_type": "VIEW",  "role": "DNS Admin"  },  …  {"\_ref": "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-only/WRITE",  "group": "cloud-api-only",  "permission": "WRITE",  "resource\_type": "GRID\_DNS\_PROPERTIES"  }], {"zone\_name": "test.org",  "zone\_ref": "zone\_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test" }] | | |

# 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 requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False) print(response.text) |
| GET | #This example demonstrates the use of cookies(ibapauth)#  import requests import copy requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False) authcookie = copy.copy(response.cookies[‘ibapauth’] print(authcookie) print(response.text) #You can re-use the authcookie in subsequent API calls# response\_using\_cookie = requests.request("GET", url, cookies=authcookie, verify=False) print(response\_using\_cookie.text) |
| GET | #This example demonstrates how you can work with large results using paging# import requests requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" querystring = {"\_max\_results":"20","\_paging":"1","\_return\_as\_object":"1"}  response = requests.request("GET", url, auth=('admin', 'Infoblox'), params=querystring,verify=False) print(response.text) next\_page\_id = response.json()['next\_page\_id'] while next\_page\_id:  query = {"\_page\_id":next\_page\_id}  newresponse = requests.request("GET", url, auth=('admin', 'infoblox'), params=query,verify=False)  print(newresponse.text)  try:  next\_page\_id = newresponse.json()['next\_page\_id']  except Exception:  next\_page\_id = 0 |
| POST | import requests requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" payload = "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}" headers = {'content-type': "application/json"} response = requests.request("POST", url, auth=('admin', 'Infoblox'), data=payload, headers=headers, verify=False) print(response.text) |
| POST (using the ‘session’ method that automatically handles the session cookies, etc when you perform multiple POST/GET) | import requests import getpass requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7" # Get username and password for auth # user = input('Username: ') passwd = getpass.getpass('Password: ') wapi\_session = requests.session() wapi\_session.auth = ('user', 'passwd') payload = '{"name":"host.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.20"}]}' headers = { 'content-type': "application/json" } # WAPI call POST /record:host # response = wapi\_session.post(wapi\_url+"/record:host?\_return\_as\_object=1", data=payload, headers=headers, auth=(user, passwd), verify=False) # Error handling # if response.status\_code == 201:   print("Success.") else:   print("Failed.")  print(response.text) |
| PUT | import requests requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1" payload = "{\"name\":\"host1.info.com\"}" headers = {'content-type': "application/json"} response = requests.request("PUT", url, auth=('admin', 'Infoblox'), data=payload, headers=headers, verify=False) print(response.text) |
| DELETE | import requests requests.packages.urllib3.disable\_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1" headers = {'content-type': "application/json"} response = requests.request("DELETE", url, auth=('admin', 'Infoblox'), headers=headers, verify=False) 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 {     try    {          Write-Host "Adding TrustAllCertsPolicy type." -ForegroundColor White         Add-Type -TypeDefinition  @"         using System.Net;         using System.Security.Cryptography.X509Certificates;         public class TrustAllCertsPolicy : ICertificatePolicy         {              public bool CheckValidationResult(              ServicePoint srvPoint, X509Certificate certificate,              WebRequest request, int certificateProblem)              {                  return true;             }         } "@         Write-Host "TrustAllCertsPolicy type added." -ForegroundColor White       }     catch     {         Write-Host $\_ -ForegroundColor "Yellow"     }     [System.Net.ServicePointManager]::CertificatePolicy = New-Object TrustAllCertsPolicy } |

|  |  |  |
| --- | --- | --- |
| **Network Object** | **REST Operation** | **Sample Powershell Code** |
| HOST record | GET | Ignore-SelfSignedCerts $url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" $pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force $creds = New-Object Management.Automation.PSCredential ('admin', $pwd) Invoke-RestMethod -Uri $url -Method GET -Credential $creds |
| GET | #This example demonstrates the use of cookies(ibapauth)# Ignore-SelfSignedCerts $url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" $pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force $creds = New-Object Management.Automation.PSCredential ('admin', $pwd) Invoke-RestMethod -Uri $url -Method GET -Credential $creds -SessionVariable authcookie #You can re-use the authcookie in subsequent API calls# Invoke-RestMethod -Uri $url -Method GET -WebSession $authcookie |
| POST | Ignore-SelfSignedCerts $url = "https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1" $pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force $creds = New-Object Management.Automation.PSCredential ('admin', $pwd) $host\_details = @{  name="host.info.com"  ipv4addrs=@(@{ipv4addr="172.26.1.20"})} $body = $host\_details | ConvertTo-Json Invoke-RestMethod -Uri $url -Method POST -Credential $creds -ContentType 'application/json' -Body $body |
| PUT | Ignore-SelfSignedCerts $url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1" $pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force $creds = New-Object Management.Automation.PSCredential ('admin', $pwd) $host\_details = @{  name="host1.info.com"} $body = $host\_details | ConvertTo-Json Invoke-RestMethod -Uri $url -Method PUT -Credential $creds -ContentType 'application/json' -Body $body |
| DELETE | Ignore-SelfSignedCerts $url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1" $pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force $creds = New-Object Management.Automation.PSCredential ('admin', $pwd) Invoke-RestMethod -Uri $url -Method DELETE -Credential $creds |

## Java

### Using Java Unirest

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| --- | --- | --- |
| **Network Object** | **REST Operation** | **Sample Java Unirest Code** |
| HOST record | GET | HttpResponse<JsonNode> response = Unirest.get("https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .asJson(); |
| POST | HttpResponse<JsonNode> response = Unirest.post("https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .header("content-type", "application/json") .body("{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}") .asJson(); |
| PUT | HttpResponse<JsonNode> response = Unirest.put("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .header("content-type", "application/json") .body("{\"name\":\"host1.info.com\"}") .asJson(); |
| DELETE | HttpResponse<JsonNode> response = Unirest.delete("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .header("content-type", "application/json") .body("{\"name\":\"host1.info.com\"}") .asJson(); |

### Using Java OkHttpClient

|  |  |  |
| --- | --- | --- |
| **Network Object** | **REST Operation** | **Sample Java OkHttpClient Code** |
| HOST record | GET | OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1") .get() .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .build(); Response response = client.newCall(request).execute(); |
| POST | OkHttpClient client = new OkHttpClient(); MediaType mediaType = MediaType.parse("application/json"); RequestBody body = RequestBody.create(mediaType, "{\"name\":\"host.info.com\",\"ipv4addrs\":[{\"ipv4addr\":\"172.26.1.20\"}]}");  Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host?\_return\_as\_object=1") .post(body) .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .addHeader("content-type", "application/json") .build(); Response response = client.newCall(request).execute(); |
| PUT | OkHttpClient client = new OkHttpClient(); MediaType mediaType = MediaType.parse("application/json"); RequestBody body = RequestBody.create(mediaType, "{\"name\":\"host1.info.com\"}");  Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1") .put(body) .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .addHeader("content-type", "application/json") .build(); Response response = client.newCall(request).execute(); |
| DELETE | OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1") .delete(null) .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .addHeader("content-type", "application/json") .build(); Response response = client.newCall(request).execute(); |

## C# (CSharp)

These examples use the *RestSharp* library.

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| **Network Object** | **REST Operation** | **Sample C# Scripts** |
| HOST record | GET | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host?\_return\_as\_object=1",Method.GET); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); IRestResponse response = client.Execute(request); var results = response.Data; |
| POST | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host?\_return\_as\_object=1",Method.POST); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data; |
| PUT | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1",Method.PUT); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host1.info.com\"}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data; |
| DELETE | ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?\_return\_as\_object=1",Method.DELETE); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); IRestResponse response = client.Execute(request); var results = response.Data; |

# References

[Infoblox Community: Definitive List of REST Examples](https://community.infoblox.com/t5/API-Integration/The-definitive-list-of-REST-examples/td-p/1214)

[Youtube Channel: WAPI Bytes](https://www.youtube.com/watch?v=Ppd_9Owukc0&list=PLRASOKPhqoBwVEk8SKOnInzn0n9xSi-0M)