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Introduction

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

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

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

General Syntax and Options

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

URL

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

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

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

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

Arguments

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

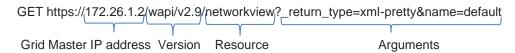
The general options are _schema, _return_type, _return_fields and _method.

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

Data (Body)

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

Example



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:

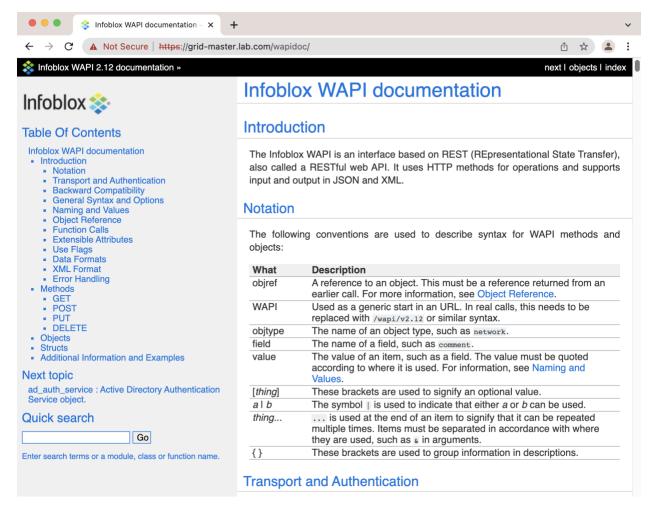
wapitype I refdata [: name1 [{ I nameN }...]]

Example



Documentation

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



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

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

Common scenarios

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

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

Points to remember

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

To get the latest version of WAPI supported by the Grid in your environment, refer to the <u>Schema</u> section. This is also available as part of the documentation.

- In the sample cURL commands, replace the text in red with values specific to your environment.
- By default, all the fields are not returned during a GET request. You can use the _return_fields
 argument to get the desired data. You would have to explicitly mention the additional fields you
 require with a _return_fields+=<requiredfield>
- You can set _return_as_object argument to 1. This will change the format of the JSON output to make
 it easy to parse by 3rd party libraries. It is recommended to set this as it standardizes the JSON
 format and is less error prone.
- Set the _max_results option to 1 when you need to stop a search on the first match. This results in a huge performance and speed improvement in large environments.
- When a search result yields a large number of results, you can use paging.
 - To start a paging request, the initial search request must have _paging and _return_as_object set to 1, and _max_results set to the desired page size.
 - The returned results object will contain the <code>next_page_id</code> field and the result field set to the first page of results. Note that the <code>next_page_id</code> 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 <u>Sample paging request</u>
- When making POST, or PUT requests, it is easier to send the data as 'application/json' in the body of the message, since it lets you send complex data structures in the payload.
- Field and argument values must be quoted according to where they are used.
 Examples:
 - URL args, x-www-form-urlencoded:
 Use %xx encoding for "%", ";", "/", "?", ":", "@", "&", "=", "+", "\$", "," and " " (a space)
 - JSON Data:
 - Use JSON quoting, as specified at http://json.org
 - XML Data:
 Use XML quoting (& 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

 - replace with {wapi_url}/<_ref>
 - o You can get the _ref by performing a GET operation.
- If a field is of type BOOLEAN, do not quote the word. Example: "is_default":true
- Some fields are associated with a corresponding boolean flag value that has the prefix *use_*. For example, *ttl* is associated with the flag *use_ttl*. In an object, the value of this field will only take effect when its use flag is *true*. Otherwise, the value will be inherited from a higher-level setting. With WAPI 2.12, you can get the inherited data by setting the *_inheritance* argument to *true*.
- While searching for network objects, you can filter the data using regular expressions. You would need to specify the ~ modifier to indicate you are querying with a regular expression.

o A search argument can use the following modifiers

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

- Only one of the following can be specified at a time: greater than, less than, and regular expressions.
- Depending on the attribute type, following are modifiers supported by extensible attributes:
 - integer and date support!, < and >.
 - All other types behave like strings and support!, ~ and :.
- When you need to update or create multiple records, you can store the data as fields in a CSV file and
 import it at once. This will be faster in comparison with updating or creating each object with a
 separate API call. The Import a CSV file section covers an example.
- The *request* object allows the control of WAPI through a single-entry point. The Multiple Object Feature enables making multiple requests with one API call, thus simplifying an operation, and reducing the number of API calls to be made. You can find a few samples in the <u>Multiple Object Body</u> 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,NlxMltsoxDNvBWK rfOMy+uxUMWS3quCB4yU"

This cookie can be invalidated by sending a POST request to /wapi/v2.12/logout

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

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

	REST Method	API Call	Sample Body		
Operation	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://grid-master/wapi/v2.12/record:host?_return_as_object=1" {"result":				
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://grid-master/wapi/v2.12/zone_auth?_return_as_object=1" {"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default", "fqdn": "test.com", "view": "default" }]				
Modify the session timeout	curl -k -b comaster/wap %2B=secur {"result": {"_ref": "g "security_ { "adm "aud "http "lcd_ "logii	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox ookies.txt -H 'content-type: application/json' oi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblodity_setting" -d '{"security_setting":{"session rid/b25lLmNsdXN0ZXlkMA:Infoblox", _setting": in_access_items": [], it_log_rolling_enable": true, _redirect_enable": false, _input_enable": true, n_banner_enable": true, n_banner_text": "Disconnect NOW if you have</wapi_url>	ox?_return_as_object=1&_return_fields n_timeout": 60000}}'		

	"se "se "se "ss "su	note_console_access_enable": false, curity_access_enable": false, curity_access_remote_console_enable": true, ssion_timeout": 600000, h_perm_enable": true, pport_access_enable": false,		
	"support_access_info": "Not enabled" }}}			
Invalidate a cookie		<pre><wapi_url>/logout cookies.txt -H 'content-type: application/json' -X POST "https://grid- pi/v2.12/logout"</wapi_url></pre>		

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
Operation	Sample cURL Command	
		Sample Output
Get the overall WAPI Schema (supported versions and supported objects)	master/w {"result": {"reques" "suppo"	<wapi_url>/? schema admin:infoblox -X GET "https://grid- api/v2.12/?_schema&_return_as_object=1" sted_version": "2.12", orted_objects": auth_service", ningroup", ningroup", ningroup", e_forward", e_rp", e_stub" orted_versions": "1.1","1.2","1.2.1", "1.3","1.4","1.4.1", </wapi_url>
Get schema of an object (<i>record:host</i> can be replaced with any other object)	GET /record:host?_schema">wapi_url>/record:host?_schema curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_schema&_return_as_object=1" {"result":	

```
"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": "2.12"
```

Extensible Attributes

Ownerthan	REST Method	API Call	Sample Body
Operation		Sample cURL Com	mand
		Sample Outpu	t
Get the definition of the Extensible Attributes	master/wa {"result": [{ "_ref": "extensible aWxkaW5i "default "name" "type": }, {"_ref": "extensible G9ydGluZ "default "name":	<pre> <wapi_url>/extensibleattributedef dmin:infoblox -X GET "https://grid- pi/v2.12/extensibleattributedef?_retu eattributedef/b25lLmV4dGVuc2libGV n:Building",</wapi_url></pre>	fYXR0cmlidXRlc19kZWYkLkJ1
Create "Owner" Extensible Attribute of type String	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "type": "STRING"} curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/extensibleattributedef?		cation/json' -X POST utedef?
	{"result":		

	bmVy:Owr	value": null, Owner",	/fYXR0cmlidXRlc19kZWYkLk93
	POST	<wapi_url>/extensibleattributedef</wapi_url>	{"name": "Location", "type": "ENUM", "list_values": [{"value": "Santa Clara"}, {"value": "Tacoma"}, {"value": "Bangalore"}, {"value": "Mumbai"}]}
Create a "Location" Extensible Attribute of type list with possible values Santa Clara, Tacoma, Bangalore, Mumbai	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/extensibleattributedef? "return_fields%2B=name,type&_return_as_object=1" -d '{"name": "Location", "type": "ENUM", "list_values": [{"value": "Santa Clara"},{"value":		utedef? ject=1" -d '{"name": le": "Santa Clara"},{"value":
			/fYXR0cmlidXRlc19kZWYkLkxv

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		
	option_delete_ea	REMOVE RETAIN	
descendants_action	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			
Operation		Sample cURL Command				
		Sample Output				
Add an extensible attribute with inheritance	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm NvbS50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url>	{"extattrs": {"Location": {"descendants_action": {"option_with_ea": "RETAIN", "option_without_ea": "NOT_INHERIT"}, "value": "Santa Clara"}}}			

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.te
st.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/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuM
TcyLjI2LjEuMjAwLg: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

_		REST Method	API Call	Sample Body (for POST and PUT)
Zone type	Operation		Sample cURL	Command
			Sample O	utput
	Fetch information	master/wa {"result": [{"_ref": "	test.com",	ct=1" ndWx0LmNvbS50ZXN0:test.com/default",
Authoritative	Create	POST	•	{"fqdn": "info.com"} cation/json' -X POST "https://grid- 2B=fqdn&_return_as_object=1" -d '{"fqdn":
Zone		{"result": {"_ref": "z	zone_auth/ZG5zLnpvbmUkLl9kZWZh info.com",	dWx0LmNvbS5pbmZv:info.com/default",
	Create	POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "10.10.10.in-addr.arpa ", "zone_format":"IPV4"}
	IPV4 reverse mapping zone	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_auth?_return_fields%2B=fqdn&_return_as_object=1" -d '{"fqdn": "10.10.10.in-addr.arpa","zone_format":"IPV4"}' {"result": {"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMC4xMC4xMA:10		

		.10.10.0%2F24/default", "fqdn": "10.10.10.0/24", view": "default"		
		PUT	<pre><wapi_url>/zone_auth/ZG5zLnpv bmUkLl9kZWZhdWx0LmNvbS5pb mZv:info.com/default</wapi_url></pre>	{"grid_primary":[{"name":"infoblox.localdo main"}]}
		master/wa default?_r	admin:infoblox -H 'content-type: appli	Ll9kZWZhdWx0LmNvbS5pbmZv:info.com/ _return_as_object=1" -d
	Modify	{"result":	zone_auth/ZG5zLnpvbmUkLl9kZWZhinfo.com",	ndWx0LmNvbS5pbmZv:info.com/default",
		}], "view": " }}		
		DELETE	<pre><wapi_url>/zone_auth/ZG5zLnpv bmUkLl9kZWZhdWx0LmNvbS5pb mZv:info.com/default</wapi_url></pre>	
	Delete	master/wa default&?_	cation/json' -X DELETE "https://grid- Ll9kZWZhdWx0LmNvbS5pbmZv:info.com/ ndWx0LmNvbS5pbmZv:info.com/default"}	
		GET curl -k -u 8	<pre><wapi_url>/zone_forward admin:infoblox -X GET "https://grid- api/v2.12/zone_forward?_return_as_c</wapi_url></pre>	
	Fetch information	.com/defa "forward [{"addr	ult",	DLmNvbS5mb3J3YXJkdGVzdA:forwardtest
Forward			"forwardtest.com", "default"	
Zone		POST	<wapi_url>/zone_forward</wapi_url>	{"fqdn":"infoblox.com", "forward_to":[{"address":"10.10.10.11", "name":"host.infoblox.com"}]}
		master/wa '{"fqdn":"in }'	admin:infoblox -H 'content-type: application applicati	
	Create	ault", "forward [{"addre	·	DLmNvbS5pbmZvYmxveA:infoblox.com/def
		}],		

		"fqdn": '	"infoblox.com",	
			"default"	
		}}		
		PUT	<pre><wapi_url>/zone_forward/ZG5zLn pvbmUkLl9kZWZhdWx0LmNvbS5 pbmZvYmxveA:infoblox.com/defa ult</wapi_url></pre>	{"forwarding_servers": [{"name":"infoblox.localdomain"}]}
		master/wa A:infoblox. '{"forwardi	admin:infoblox -H 'content-type: applic api/v2.12/zone_forward/ZG5zLnpvbml .com/default?_return_fields%2B=forw ng_servers": [{"name":"infoblox.localc	UkLl9kZWZhdWx0LmNvbS5pbmZvYmxve /arding_servers&_return_as_object=1" -d
	Modify	ault", "forward [{"addre "name }], "forward [{"forwa "forwa "name	,	DLmNvbS5pbmZvYmxveA:infoblox.com/def
			"infoblox.com", "default"	
		DELETE	<pre><wapi_url>/zone_forward/ZG5zLn pvbmUkLl9kZWZhdWx0LmNvbS5 pbmZvYmxveA:infoblox.com/defa ult</wapi_url></pre>	
	Delete	master/wa A:infoblox.	admin:infoblox -H 'content-type: applic api/v2.12/zone_forward/ZG5zLnpvbml .com/default?_return_as_object=1"	cation/json' -X DELETE "https://grid- UkLl9kZWZhdWx0LmNvbS5pbmZvYmxve
		ault"}	·	DLmNvbS5pbmZvYmxveA:infoblox.com/def
		master/wa {"result": [{"_ref": "zone_dele	<pre>_ <wapi_url>/zone_delegated admin:infoblox -X GET "https://grid- api/v2.12/zone_delegated?_return_as egated/ZG5zLnpvbmUkLl9kZWZhdW</wapi_url></pre>	_object=1" /x0LmNvbS5pbmZvLnRlc3Q:test.info.com/
Zone Delegation	Fetch information	default", "delega [{"addro "name }], "fqdn": ' "view": '	•	
	Create	POST	<wapi_url>/zone_delegated</wapi_url>	{"fqdn":"demo.info.com", "delegate_to":[{"address":"10.10.10.20", "name":"host.demo.info.com"}}}

T					
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_delegated?_return_fields%2B=fqdn,delegate_to&_return_as_obj ect=1" -d				
	'{"fqdn":"demo.info.com","delegate_to":[{"address":"10.10.10.20","name":"host.demo.info.com"}]}'				
	{"result":				
	{"_ref":				
			x0LmNvbS5pbmZvLmRlbW8:demo.info.c		
	om/default "delegate	·			
		_:o : s": "10.10.10.20",			
		"host.demo.info.com"			
	}],				
	"fqdn": "d	lemo.info.com",			
	"view": "c	ierauit"			
	111	<wapi_url>/zone_delegated/ZG5z</wapi_url>			
	PUT	LnpvbmUkLl9kZWZhdWx0LmNvb S5pbmZvLmRlbW8:demo.info.co m/default	{"locked":true}		
Modify	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmR lbW8:demo.info.com/default?_return_fields=locked&_return_as_object=1" -d '{"locked":true}'				
	{"result":				
	DELETE	<pre><wapi_url>/zone_delegated/ZG5z LnpvbmUkLl9kZWZhdWx0LmNvb S5pbmZvLmRlbW8:demo.info.co m/default</wapi_url></pre>			
Delete	curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmR lbW8:demo.info.com/default?_return_as_object=1"				
	{"result": "zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:de om/default"}				

The most common record types

Record	Record		API Call	Sample Body (for POST and PUT)
type	Operation		Sample cURL Comi	mand
			Sample Output	t
		GET	<wapi_url>/record:host</wapi_url>	
		curl -k -u a	ndmin:infoblox -X GET "https://grid-	
		master/wa	pi/v2.12/record:host?_return_as_object=1"	
		{"result":		
HOST	Fetch	[{"_ref":		
11031	information	"record:ho	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS	\$50ZXN0Lmhvc3Qx:host1.test.com/de
		fault",		
		"ipv4ad	drs":	
		[{ "_ref	·:	
		"record:ho	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyC	QuX2RIZmF1bHQuY29tLnRlc3QuaG9

```
zdDEuMTcyLjl2LjEuMjAwLg: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.co
          m/default".
            "ipv4addrs":
             [{"_ref":
          "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucHJ
          pbnRlci4xNjAuMjAuMS4xMDAu: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"
           }]}
                                                              {"name":"host.info.com",
            POST
                     <wapi_url>/record:host
                                                              "ipv4addrs":
                                                             [{"ipv4addr":"10.10.10.20"}]}
          curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
          master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -
          d '{"name": "host.info.com", "ipv4addrs": [{"ipv4addr": "10.10.10.20"}]}'
          {"result":
          Create
            "ipv4addrs":
            [{"_ref":
          "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcvQuX2RIZmF1bHQuY29tLmluZm8uaG
          9zdC4xMC4xMC4xMC4yMC4:10.10.10.20/host.info.com/default",
             "configure for dhcp": false,
             "host": "host.info.com".
             "ipv4addr": "10.10.10.20"
            "name": "host.info.com",
            "view": "default"
          }}
                     <wapi url>/record:host/ZG5zLmhvc3Qk
            PUT
                     LI9kZWZhdWx0LmNvbS5pbmZvLmhvc3
                                                              {"name":"host1.info.com"}
                     Q:host.info.com/default
          curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
          master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:h
          ost.info.com/default?_return_fields%2B=name&_return_as_object=1" -d
Modify
          '{"name":"host1.info.com"}'
          {"result":
          \[ \text{"_ref": \] \"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/def
          ault",
            "ipv4addrs":
```

		[{"_ref":				
		"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG 9zdDEuMTAuMTAuMTAuMjAu: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" }}				
		<pre>Comparition</pre>	c3			
	Delete	curl -k -u admin:infoblox -H 'content-type: applicati master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9host1.info.com/default?_return_as_object=1"	on/json' -X DELETE "https://grid- kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:			
		{"result": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNault"}	vbS5pbmZvLmhvc3Qx:host1.info.com/def			
		GET <wapi_url>/record:a curl -k -u admin:infoblox -X GET "https://grid-</wapi_url>				
		master/wapi/v2.12/record:a?_return_as_object=1" {"result":				
	Fetch	[{"_ref":				
	information	"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4y Ni4xLjEwMA:host.test.info.com/default",				
		"ipv4addr": "172.26.1.100", "name": "host.test.info.com",				
		"view": "default" }}}				
		POST <wapi_url>/record:a</wapi_url>	{"name":"server.info.com", "ipv4addr":"10.10.10.2"}			
		curl -k -u admin:infoblox -H 'content-type: applicati master/wapi/v2.12/record:a?_return_fields%2B=na'{"name":"server.info.com","ipv4addr":"10.10.10.2"	ame,ipv4addr&_return_as_object=1" -d			
	Create	{"result": {"_ref":				
Α	Orcaio	"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY	29tLmluZm8sc2VydmVyLDEwLjEwLjEw			
		Ljl:server.info.com/default", "ipv4addr": "10.10.10.2",				
		"name": "server.info.com", "view": "default"				
		}}	re l			
		PUT <pre><wapi_url>/record:a/ZG5zLmJpbmRfY QuX2RlZmF1bHQuY29tLmluZm8sc2\ dmVyLDEwLjEwLjEwLjI:server.info.co default</wapi_url></pre>	/y ("namo":"sorver1 info com")			
	Modify	curl -k -u admin:infoblox -H 'content-type: applicati master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQu VyLDEwLjEwLjEwLjI:server.info.com/default?_retu =1" -d '{"name":"server1.info.com"}'	X2RIZmF1bHQuY29tLmluZm8sc2Vydm			
		{"result": {"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY xMC4y:server1.info.com/default", "ipv4addr": "10.10.10.2",	29tLmluZm8sc2VydmVyMSwxMC4xMC4			

		"name"·	"server1.info.com",			
		"view": "(
		}}				
		DELETE	<pre><wapi_url>/record:a/ZG5zLmJpbmRfYS QuX2RIZmF1bHQuY29tLmluZm8sc2Vy dmVyMSwxMC4xMC4xMC4y:server1.inf o.com/default</wapi_url></pre>			
	Delete	master/way VyMSwxM {"result":	dmin:infoblox -H 'content-type: application/jppi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2FC4xMC4xMC4y:server1.info.com/default?_i	RIZmF1bHQuY29tLmluZm8sc2Vydm return_as_object=1"		
			ver1.info.com/default"}			
		GET	<wapi_url>/record:aaaa</wapi_url>			
			dmin:infoblox -X GET "https://grid-			
		master/wa	pi/v2.12/record:aaaa?_return_as_object=1"			
	Fetch information	[{"_ref": "record:aa: OmU0NTp "ipv6ado	aa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1b IMzFiOjo:host.test.com/default", dr": "fd60:e45:e31b::", "host.test.com", default			
		POST	<wapi_url>/record:aaaa</wapi_url>	{"name":"server.info.com", "ipv6addr":"fd60:e32:f1b9::2"}		
AAAA	Create	master/wa d '{"name": {"result": {"_ref": "record:aa: NjA6ZTMy "ipv6add	dmin:infoblox -H 'content-type: application/jipi/v2.12/record:aaaa?_return_fields%2b=na:"server.info.com","ipv6addr":"fd60:e32:f1b9 aa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bOmYxYjk6Ojl:server.info.com/default",r": "fd60:e32:f1b9::2","server.info.com",default"	nme,ipv6addr&_return_as_object=1" - :::2"}'		
		PUT	<pre><wapi_url>/record:aaaa/ZG5zLmJpbmRf YWFhYSQuX2RIZmF1bHQuY29tLmluZ m8sc2VydmVyLGZkNjA6ZTMyOmYxYjk 6Ojl:server.info.com/default</wapi_url></pre>	{"name":"server1.info.com"}		
	Modify	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bHQuY29tLsc2VydmVyLGZkNjA6ZTMyOmYxYjk6Ojl:server.info.com/default?_return_fields%2&_return_as_object=1" -d '{"name":"server1.info.com"}' {"result":				
	Delete	DELETE	<pre><wapi_url>/record:aaaa/record:aaaa/ZG 5zLmJpbmRfYWFhYSQuX2RlZmF1bHQ uY29tLmluZm8sc2VydmVyMSxmZDYw</wapi_url></pre>			

	1	1	T =			
			OmUzMjpmMWI5Ojoy:server1.info.com/ default			
		master/wa	admin:infoblox -H 'content-type: application/japi/v2.12/record:aaaa/ZG5zLmJpbmRfYWFt/yMSxmZDYwOmUzMjpmMWI5Ojoy:server	nYSQuX2RIZmF1bHQuY29tLmluZm8		
		{"result": "record:aa	naa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1b UzMjpmMWI5Ojoy:server1.info.com/default'			
			<pre><wapi_url>/record:cname admin:infoblox -X GET "https://grid- api/v2.12/record:cname?_return_as_object=</wapi_url></pre>	1"		
	Fetch information	{"result": [{"_ref": "record:cr st.com/de "canoni "name"	ame/ZG5zLmJpbmRfY25hbWUkLl9kZWZho			
		POST	<wapi_url>/record:cname</wapi_url>	{"name":"cnametest.demo.info.com", "canonical":"demo.info.com"}		
	Create	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:cname?_return_fields%2B=name,canonical&_return_as_object=1 " -d '{"name":"cnametest.demo.info.com","canonical":"demo.info.com"}'				
CNAME		hbWV0ZX "canonio		dWx0LmNvbS5pbmZvLmRlbW8uY25		
	Modify	PUT	<pre><wapi_url>/record:cname/ZG5zLmJpbm RfY25hbWUkLl9kZWZhdWx0LmNvbS5p bmZvLmRlbW8uY25hbWV0ZXN0:cnam etest.demo.info.com/default</wapi_url></pre>	{"name":"cname.demo.info.com "}		
		master/wa ZvLmRlbV &_return_	admin:infoblox -H 'content-type: application/j api/v2.12/record:cname/ZG5zLmJpbmRfY25 V8uY25hbWV0ZXN0:cnametest.demo.info.c as_object=1" -d '{"name":"cname.demo.info	hbWUkLl9kZWZhdWx0LmNvbS5pbm com/default?_return_fields%2B=name		
		hbWU:cna "canonio	name/ZG5zLmJpbmRfY25hbWUkLl9kZWZho nme.demo.info.com/default", cal": "demo.info.com", "cname.demo.info.com", default"	dWx0LmNvbS5pbmZvLmRlbW8uY25		
	Delete	DELETE	<wapi_url>/record:cname/ZG5zLmJpbm RfY25hbWUkLl9kZWZhdWx0LmNvbS5p bmZvLmRlbW8uY25hbWU:cname.demo .info.com/default admin:infoblox -H 'content-type: application/j</wapi_url>	con' Y DELETE "https://grid		
		master/wa	admin:infobiox -H content-type: application/j api/v2.12/record:cname/ZG5zLmJpbmRfY25 V8uY25hbWU:cname.demo.info.com/defaul	hbWUkLl9kZWZhdWx0LmNvbS5pbm		

		{"result":
		"record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8uY25 hbWU:cname.demo.info.com/default"}
	Fetch information	GET /record:mx">curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:mx?_return_as_object=1" {"result":
		POST <pre>wapi_url>/record:mx</pre> {"mail_exchanger":"exchange.info.c om",
MX	Create	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:mx?_return_fields%2B=mail_exchanger,name&_return_as_object =1" -d '{"mail_exchanger":"exchange.info.com","name":"mx.info.com","preference":1}' {"result":
	Modify	PUT
	Delete	DELETE

	<u> </u>	{"result":			
			c/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmN	vbS5pbmZvLm1haWwuZXhiaGFuZ2	
			by5jb20uMQ:mail.info.com/default"}		
		GET	<wapi_url>/record:ns</wapi_url>		
			admin:infoblox -X GET "https://grid-		
			pi/v2.12/record:ns?_return_as_object=1"		
		{"result":	•		
		[{"_ref":			
			/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFy	cGEuaW4tYWRkci4xMjcuMC4wLi5jb	
			cluster/0.0.127.in-addr.arpa/default",		
			"0.0.127.in-addr.arpa", erver": "cluster",		
		"view": "			
		},			
		{"_ref":			
			/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmF ₎		
	Fetch		AuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLj <i>A</i>		
	information		3Rlcg: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.ip6.arp	
		a/default",	"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.in6.arpa"	
			erver": "cluster",	.0.0.0.0.0.0.0.0.0.lpo.arpa ,	
		"view": "			
		},			
		{"_ref":			
		"record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3QuaG9zdC50ZXN			
		0LmluZm8uY29t:host.test.info.com/test.info.com/default", "name": "test.info.com",			
			rver": "host.test.info.com",		
NS		"view": "c			
		}]}			
				{"name":"info.com",	
		DOCT	avani ush /raqqrduq	"nameserver":"infoblox.localdomain	
		POST	<wapi_url>/record:ns</wapi_url>	, "addresses":[{"address":"192.168.1	
				1.0"}]}	
		curl -k -u a	idmin:infoblox -H 'content-type: application/j		
		master/wa	pi/v2.12/record:ns?_return_fields%2B=nam		
		_object=1'			
		-	nfo.com","nameserver":"infoblox.localdomai	n","addresses":[{"address":"192.168.1	
		1.0"}]}' {"result":			
	Create	{"_ref":			
		{ _rer : "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2N			
		hbGRvbWFpbg:infoblox.localdomain/info.com/default",			
		"address			
			ss": "192.168.11.0",		
			create_ptr": true		
		}], "name":	"info.com",		
			erver": "infoblox.localdomain",		
		"view": "			
		}}			
	Modify	PUT	<wapi_url>/record:ns/ZG5zLmJpbmRfbn</wapi_url>	{"nameserver":"nios.info.com"}	
1	I Wisding	1 ' 5 '	MkLl9kZWZhdWx0LmNvbS5pbmZvLi5p	[113.110001701 . 11100.11110.00111]	

	1	1	h7-V		
			bmZvYmxveC5sb2NhbGRvbWFpbg:info		
		ourl k u o	blox.localdomain/info.com/default dmin:infoblox -H 'content-type: application/js	eon' -Y PLIT "https://grid	
			omin:infobiox -H_content-type: application/js pi/v2.12/record:ns/ZG5zLmJpbmRfbnMkLl9I		
			5sb2NhbGRvbWFpbg:infoblox.localdomain		
			eserver&_return_as_object=1" -d '{"namese		
		{"result":			
		{"_ref":			
			ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNv	bS5pbmZvLi5uaW9zLmluZm8uY29t:	
			om/info.com/default",		
			"info.com", rver": "nios.info.com",		
		"view": "(
		}}	Jordan		
		,,	<wapi_url>/record:ns/ZG5zLmJpbmRfbn</wapi_url>		
		DELETE	MkLl9kZWZhdWx0LmNvbS5pbmZvLi5u		
		DELETE	aW9zLmluZm8uY29t:nios.info.com/info.c		
			om/default	L V DELETE III III III III	
	Delete		dmin:infoblox -H 'content-type: application/js		
			pi/v2.12/record:ns/ZG5zLmJpbmRfbnMkLl9l 8uY29t:nios.info.com/info.com/default?_retu		
		{"result":	ou 129t.11105.11110.com/ili110.com/default?_fetc	iii_as_object=1	
			ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNv	bS5pbmZvLi5uaW9zLmluZm8uY29t:	
			om/info.com/default"}		
		GET	<wapi_url>/record:ptr</wapi_url>		
			dmin:infoblox -X GET "https://grid-		
			pi/v2.12/record:ptr?_return_as_object=1"		
		{"result":			
		[{"_ref":	/7C5zl m lphmPfcHPv	oonBhl mlul WEkZHIUMTISI iAuMC4x	
		"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTl3LjAuMC4x LmxvY2FsaG9zdA:1.0.0.127.in-addr.arpa/default",			
			ne": "localhost",		
		"view": '			
		},			
		{"_ref":	/=a		
	Fetch		/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5l		
	information		wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4 FsaG9zdA:1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0		
		default",	. 3aG32aA. 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.po.arpa/	
DTD		,	ne": "localhost",		
PIR			"default"		
		},			
		{"_ref":	/705=1 m lnhmDfal ID: 105(70) / 1051	on Dhillian IIII I MAT and SIOL STORA	
			/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5l :3QudGVzdC5pbmZvLmNvbQ:100.1.26.172		
			ne": "host.test.info.com",	auur.arpa/ucraun ,	
		"view": '			
		}]}			
				{"name":"2.10.10.10.in-addr.arpa",	
		POST	<wapi_url>/record:ptr</wapi_url>	"ptrdname":"server1.info.com",	
	0			"ipv4addr":"10.10.10.2"}	
	Create		dmin:infoblox -H 'content-type: application/js		
			pi/v2.12/record:ptr?_return_fields%2B=name "name":"2.10.10.10.in-addr.arpa",	e,ptruname,ipv4auur&_retum_as_0bj	
			":"server1.info.com","ipv4addr":"10.10.10.2"}	,	
<u> </u>		Paramamo	. 55.7577111110100111 ; Ipv Iddal 1 1011011012)		

		\"recult".					
		{"result": {"_ref":					
		"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTAuMTAuMT					
		AuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default",					
			lr": "10.10.10.2",	pa, doradic ,			
			"2.10.10.10.in-addr.arpa",				
			ne": "server1.info.com",				
		"view": "					
		}}					
		PUT	<pre><wapi_url>/record:ptr/ZG5zLmJpbmRfc HRyJC5fZGVmYXVsdC5hcnBhLmluLW FkZHluMTAuMTAuMTAuMi5zZXJ2ZXlu aW5mby5jb20:2.10.10.10.in- addr.arpa/default</wapi_url></pre>	{"ptrdname":"server.info.com"}			
	Modify	master/wa HluMTAul addr.arpa/ '{"ptrdnam	admin:infoblox -H 'content-type: application/jpi/v2.12/record:ptr/ZG5zLmJpbmRfcHRyJCMTAuMTAuMi5zZXJ2ZXluaW5mby5jb20:2.1default?_return_fields%2B=ptrdname&_retue":"server.info.com"}	5fZGVmYXVsdC5hcnBhLmluLWFkZ			
		{"result":					
		{"_ref":	170571 m lnhmBfnHBv 105f70VmVVV/2405	honDhl mlul W/Ek7HluNATAUNATAUNAT			
		AuMi5zZX	r/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5 J2ZXIuaW5mby5jb20:2.10.10.10.in-addr.ar ne": "server.info.com", default"				
		,,	<wapi_url>/record:ptr/ZG5zLmJpbmRfc</wapi_url>				
		DELETE	HRyJC5fZGVmYXVsdC5hcnBhLmluLW FkZHluMTAuMTAuMTAuMi5zZXJ2ZXlu aW5mby5jb20:2.10.10.10.in-addr.arpa/default				
	Delete	master/wa HluMTAul	admin:infoblox -H 'content-type: application/jipi/v2.12/record:ptr/ZG5zLmJpbmRfcHRyJC MTAuMTAuMi5zZXJ2ZXIuaW5mby5jb20:2.ć default?_return_as_object=1"	5fZGVmYXVsdC5hcnBhLmluLWFkZ			
		{"result":					
			:/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5 J2ZXIuaW5mby5jb20:2.10.10.10.in-addr.ar				
		GET	<wapi_url>/record:txt</wapi_url>				
			admin:infoblox -X GET "https://grid-				
			pi/v2.12/record:txt?_return_as_object=1"				
		{"result":					
	Fetch	[{"_ref":					
	information	"record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzliAiYSlglm1haWwilCJzZXJ2ZXli:mail.test.com/default",					
			"mail.test.com",				
T) (T			This a mail server",				
TXT		"view": "					
		}]}					
		POST	<wapi_url>/record:txt</wapi_url>	{"name":"server.info.com", "text":"This a host server"}			
			admin:infoblox -H 'content-type: application/j	son' -X POST "https://grid-			
	Create	master/wa	pi/v2.12/record:txt?_return_fields%2B=name				
			server.info.com","text":"This a host server"}				
		{"result":					
		{"_ref":					

		record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXlCJhliAiaG9zdClgInNlcnZlcil:server.info.com/default", "name": "server.info.com", "text": "This a host server", "view": "default"	ullRoaXMil
	Modify	PUT	rver"}
		eurl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid- naster/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20ua\ 2ZXIuIIRoaXMiICJhIiAiaG9zdClgInNlcnZlcil:server.info.com/default?_return_fit&_return_as_object=1" -d '{"text":"This a test server"}' "result":	
		<pre>"esuit : {"_ref": record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXI CJhliAidGVzdClgInNlcnZlcil:server.info.com/default", "name": "server.info.com", "text": "This a test server", "view": "default" }</pre>	ullRoaXMil
		<pre>cwapi_url>/record:txt/ZG5zLmJpbmRfdH h0JC5fZGVmYXVsdC5jb20uaW5mby5z ZXJ2ZXIuIIRoaXMilCJhliAiaG9zdClgInN lcnZlcil:server.info.com/default</pre>	
	Delete	eurl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://gnaster/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20ual/2ZXIullRoaXMilCJhliAidGVzdClgInNlcnZlcil:server.info.com/default?_return_a"result": record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXlCJhliAidGVzdClgInNlcnZlcil:server.info.com/default"}	W5mby5zZX as_object=1"
		GET \text{record:srv} \text{curl -k -u admin:infoblox -X GET "https://grid-naster/wapi/v2.12/record:srv?_return_as_object=1"}	
SRV	Fetch information	"result": [{"_ref": record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20udGVzdC9fdGNwLI9. //C8yMi90ZXN0LmNvbQ:_sshtcp.test.com/default",	
	Create	POST <pre>wapi_url>/record:srv</pre>	
		eurl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://gric naster/wapi/v2.12/record:srv?_return_fields%2B=name,target&_return_as_objo "name": "_sshtcp.info.com","port": 22,"priority": 10,"target": "info.com","weigh "result": {"_ref":	ect=1" -d

	"record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_sshtcp.info.com/default", "name": "_sshtcp.info.com", "port": 22, "priority": 10, "target": "info.com", "view": "default", "weight": 10 }}
	PUT
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMTAvMTAvMjlvaW5mby5jb20:_sshtcp.info.com/default?_return_fields%2B=priority&_return_as_object=1" -d '{"priority": 20}'
Modify	{"result": {"_ref": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAv MTAvMjIvaW5mby5jb20:_sshtcp.info.com/default", "name": "_sshtcp.info.com", "port": 22, "priority": 20, "target": "info.com", "view": "default", "weight": 10 }}
	DELETE < wapi_url>/record:srv/ZG5zLmJpbmRfc
Delete	curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_sshtcp.info.com/default?_return_as_object=1" {"result": "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_sshtcp.info.com/default"}

Infoblox Deployment Guide - Infoblox REST API - February 2022

Retrieve all the records in a zone

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

- record:a
- record:aaaa
- record:cname
- record:dname
- record:host
- record:host_ipv4addr
- record:host_ipv6addr
- record:mx
- record:naptr
- record:ptr
- record:srv
- record:txt
- record:unknown
- sharedrecord:a
- sharedrecord:aaaa
- sharedrecord:mx
- sharedrecord:srv
- sharedrecord:txt

For the other types of records, it returns "UNSUPPORTED".

	REST			
	Method	API Call		
Operation	Metriod	Sample cURL Command		
		Sample Output		
	GET	<wapi url="">/allrecords?zone=info.com</wapi>		
	curl -k -u	admin:infoblox -X GET "https://grid-		
		api/v2.12/allrecords?zone=info.com&_return_as_object=1"		
	{"result":			
	[{"_ref":			
	"allrecord	s/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3NvYSQuX2RlZmF1bHQuY29tLmlu		
	Zm8:",			
	"comment": "Auto-created by Add Zone",			
	"name": "",			
	"type": "UNSUPPORTED",			
Datria a all	"view": "default", "zone": "info.com"			
Retrieve all records in a	,	"INTO.COM"		
zone	}, {"_ref":			
20110		s/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX25zJC5fZGVmYXVsdC5jb20uaW5m		
		mb2Jsb3gubG9jYWxkb21haW4:",		
		ent": "Auto-created by Add Zone",		
	"name			
	"type": "UNSUPPORTED",			
	"view": "default",			
	"zone": "info.com"			
	},			
	{"_ref":			
		s/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby5o		
	b3N0:hos	it",		

```
"comment": ""
 "name": "host",
 "type": "record:host_ipv4addr",
"view": "default",
"zone": "info.com"
 },
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZv
LHNlcnZlciwxMC4xMC4xMC4y:server",
 "comment": "",
 "name": "server",
 "type": "record:a",
 "view": "default",
 "zone": "info.com"
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2FhYWEkLl9kZWZhdWx0LmNvbS5
pbmZvLHNlcnZlcixmZDYwOmUzMjpmMWI5Ojoy:server",
  "comment": ""
 "name": "server",
 "type": "record:aaaa",
 "view": "default",
 "zone": "info.com"
 {"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby50
ZXN0: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		
	GET	<wapi_url>/record:a?creator=STATIC</wapi_url>	
	curl -k -u	admin:infoblox -X GET "https://grid-	
	master/wa	api/v2.12/record:a?creator=STATIC&_return_fields%2B=creator&_return_as_object=1"	
Retrieve non-	{"result":		
system	[{"_ref":		
generated A		ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.in	
records	fo.com/de	,	
1000140	"creator": "STATIC",		
	"ipv4addr": "10.10.10.2",		
	"name": "server.info.com",		
	"view":	"default"	

```
{"_ref":
               "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmRlbW8scHJpbnQsMTAuMTAuTAuMjE:print.d
               emo.com/default",
                  "creator": "STATIC",
                 "ipv4addr": "10.10.10.21",
                 "name": "print.demo.com",
                 "view": "default"
               }]}
                         <wapi_url>/allrecords?zone=demo001.com&creator=STATIC
               curl -k -u admin:infoblox -X GET "https://grid-
               master/wapi/v2.12/allrecords?zone=demo001.com&creator=STATIC&_return_fields%2B=creator&_ret
               urn as object=1"
               {"result":
                [{"_ref":
               "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uZGVtbzAw
Retrieve non-
               MS5ob3N0MDAx:host001",
   system
                 "comment": ""
 generated
                 "name": "host001",
records of all
                  "type": "record:host ipv4addr",
                 "view": "default",
 types within
                 "zone": "demo001.com"},
    zone
                 {"_ref":
demo001.com
               "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5kZW1v
               MDAxLGhvc3QwMDIsMTAuMC4wLjI:host002",
                 "comment": "",
                  "name": "host002",
                  "type": "record:a",
                 "view": "default",
                 "zone": "demo001.com"}]}
```

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			
Operation		Sample cURL Command			
		Sample Output			
	GET	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.t est.com/default</wapi_url></pre>			
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default? return as object=1"				
	{"result":	unrotum_ao_oojoot=1			
Retrieve host by object	"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs":				
reference	[{ "_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc yLjl2LjEuMjAwLg:172.26.1.200/host1.test.com/default",				
	"configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.200"				
	}],	: "host1.test.com",			

```
"view": "default"
                         <wapi_url>/record:host?name=host1.info.com
               curl -k -u admin:infoblox -X GET "https://grid-
               master/wapi/v2.12/record:host?name=host1.info.com&_return_as_object=1"
               {"result":
                [{"_ref":
               "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default",
                  "ipv4addrs":
                  [{"_ref":
Search host
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uaG9zdDEuMT
  by name
               AuMTAuMTAuMjAu: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"
               }]}
                         <wapi url>/record:host? return fields%2B=extattrs&*Location:=Santa%20Clara
                 GET
               curl -k -u admin:infoblox -X GET "https://grid-
               master/wapi/v2.12/record:host? return fields%2B=extattrs&*Location%3A=Santa%20Clara& return
               as_object=1"
               {"result":
                [{"_ref":
               "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",
                  "extattrs":
                  {"Location":
Search host
                    {"value": "Santa Clara"}
   by EA
 (Location is
                  "ipv4addrs":
set to Santa
                  [{"_ref":
   Clara)
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc
               yLjl2LjEuMjAwLg: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"
               }]}
                         <wapi_url>/record:host?ipv4addr>=10.10.10.100&ipv4addr<=10.10.10.102</pre>
               curl -k -u admin:infoblox -X GET "https://grid-
               master/wapi/v2.12/record:host?ipv4addr>=10.10.10.100&ipv4addr<=10.10.10.102& return as object
               =1"
               {"result":
               [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-
Search host
               1.abc.com/default",
by IP address
                 "ipv4addrs":
    range
                 [{"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTEuMT
               AuMTAuMTAuMTAxLg:10.10.10.101/host-1.abc.com/default",
                   "configure_for_dhcp": false,
                  "host": "host-1.abc.com",
                  "ipv4addr": "10.10.10.101"}]
```

```
"name": "host-1.abc.com",
                "view": "default" },
               {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0y:host-
              2.abc.com/default",
                "ipv4addrs":
                [{"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTluMTA
              uMTAuMTAuMTAyLg:10.10.10.102/host-2.abc.com/default",
                 "configure_for_dhcp": false,
                 "host": "host-2.abc.com",
                 "ipv4addr": "10.10.10.102" }],
               "name": "host-2.abc.com",
               "view": "default"},
               {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default",
                "ipv4addrs":
               [{"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQubmV0Lnh5ei50ZXN0LjEwLjE
              wLjEwLjEwMC4:10.10.10.100/test.xyz.net/default",
                 "configure_for_dhcp": false,
                 "host": "test.xyz.net",
                 "ipv4addr": "10.10.10.100"}],
               "name": "test.xyz.net",
               "view": "default" }]}
                GET <wapi_url>/record:host?network=10.10.10.0/24
              curl -k -u admin:infoblox -X GET "https://grid-
              master/wapi/v2.12/record:host?network=10.10.10.0/24&_return_as_object=1"
              {"result":
              [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-
               1.abc.com/default",
                "ipv4addrs":
                [{"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmFiYy5ob3N0LTEuMT
              AuMTAuMTAuMTAxLg:10.10.10.101/host-1.abc.com/default",
                  "configure_for_dhcp": false,
                  "host": "host-1.abc.com",
Search host
                  "ipv4addr": "10.10.10.101"}],
 by subnet
                "name": "host-1.abc.com",
                "view": "default" },
              {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default",
                "ipv4addrs":
                [{"_ref":
               record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQubmV0Lnh5ei50ZXN0LjEwLjE
              wLjEwLjEwMC4:10.10.10.100/test.xyz.net/default",
                 "configure_for_dhcp": false,
                 "host": "test.xyz.net",
                 "ipv4addr": "10.10.10.100"}],
               "name": "test.xyz.net",
               "view": "default" }]}
                         <wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEw
                        LjEwLjEwLjI:server.info.com/default
Get A record
              curl -k -u admin:infoblox -X GET "https://grid-
using object
              master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjE
 reference
               wLjEwLjl:server.info.com/default? return as object=1"
              {"result":
               {"_ref":
```

```
"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.in fo.com/default",
    "ipv4addr": "10.10.10.2",
    "name": "server.info.com",
    "view": "default"
}}
```

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

Search for network objects based on regular expressions

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

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

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

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

	REST Method	API Call			
Operation	Sample cURL Command				
	Sample Output				
	GET	<wapi_url>/record:a?name~=info.com&_return_fields=name</wapi_url>			
	curl -k -u admin:infoblox -X GET "https://grid-				
	master/wapi/v2.12/record:a?name~=info.com&_return_fields=name&_return_as_object=1"				
	{"result":				
0	_ [{"_ref":				
Search for A		ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:serve			
records that contain info.com	r.info.com/default", "name": "server.info.com"				
in the name	,	: Server.inio.com			
in the name	}, {"_ref":				
	record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjE				
		t.test.info.com/default",			
		: "host.test.info.com"			
	}]}				
	GET	<wapi_url>/zone_auth?fqdn~=^i.*lo.*\$&_return_fields=fqdn</wapi_url>			
		admin:infoblox -X GET "https://grid-			
	master/wapi/v2.12/zone_auth?fqdn~=^i.*lo.*\$&_return_fields=fqdn&_return_as_object=1"				
	{"result":				
	_ [{"_ref":	41/705 1 1 1/1/01 71A/71 11A/ 01 A 1 05 1 7 A 1 (1/1 A			
Search for zones		th/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default",			
that start with an		"infoblox.com"			
"i" and contain	}, {"_ref":				
"lo"		th/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvcm1ibG94:informblox.com/default",			
		"informblox.com"			
	},				
		"zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmdsbw:inglo.com/default",			
	"fqdn"	: "inglo.com"			
	}]}				

Aliases for a host

	REST Method	API Call	Sample Body		
Operation	ou	Sample cURL Command			
	Sample Output				
	GET /record:host?_return_fields%2B=aliases&name=printer.info.com curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=aliases&name=printer.info.com&_return_as_object=1" {"result":				
Get all the aliases on a host	"aliase ["scan "ipv4ad [{"_ref "record:h NjAuMjAu "confi "host' "ipv4a }], "name' "view":	ner.info.com"], ldrs":			
	}]}		T en		
	POST	<wapi_url>/record:host</wapi_url>	{"name":"wapialias.info.co m", "ipv4addrs": [{"ipv4addr":"172.26.1.2"}] , "aliases": ["remote","pointer"]}		
Add a host with aliases	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=aliases&_return_as_object=1" -d '{"name":"wapialias.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.2"}],"aliases": ["remote","pointer"]}' {"result":				

```
<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv
                 PUT
                                                                                        {"aliases": ["local"]}
                          bS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default
                curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
                master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wap
                ialias.info.com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": ["local"]}'
                {"result":
                 {" ref":
                "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/def
                ault",
                  "aliases":
Modify aliases
                   ["local.info.com"],
  on a host
                  "ipv4addrs":
                   [{"_ref":
                record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaWFsaW
                FzLjE3Mi4yNi4xLjIu: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"
                          <wapi url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv
                 PUT
                                                                                        {"aliases": []}
                          bS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default
                curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
                master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wap
                ialias.info.com/default? return fields%2B=aliases& return as object=1" -d '{"aliases": []}'
                {"result":
                 {"_ref":
                "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/def
   Remove
                  "ipv4addrs":
aliases from a
                  [{"_ref":
    host
                "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaWFsaW
                FzLjE3Mi4yNi4xLjlu: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

Onenetien	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
	Sample Output			
Change IP	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmN vbS50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url></pre>	{"ipv4addrs": [{"ipv4addr": "172.26.1.21"}]}	
address of a host	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs":[{"ipv4addr": "172.26.1.21"}]}'			

```
{"result":
    {"_ref":
    "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",
    "ipv4addrs":
    [{"_ref":
    "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc
    yLjl2LjEuMjEu: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-

	REST Method	API Call	Sample Body			
Operation	Sample cURL Command					
		Sample Output				
	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv bS50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url></pre>	{"ipv4addrs+": [{"ipv4addr": "192.168.1.21"}, {"ipv4addr": "10.10.10.21"}]}			
		admin:infoblox -H 'content-type: application/json' -X PUT "https://				
		api/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5(0ZXN0Lmhvc3Qx:host1.test.			
		ult?_return_fields%2B=ipv4addrs&_return_as_object=1" -d				
		drs+":[{"ipv4addr":"192.168.1.21"},{"ipv4addr":"10.10.10.21"}]}'				
	{"result":					
		{"_ref":				
		"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",				
	"ipv4addrs": [{"_ref":					
	լչ _rer . "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc					
A -1 -1 1D	yLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",					
Add IP address to a	"configure_for_dhcp": false,					
host record	"host": "host1.test.com",					
1103t 10001d	"ipv4addr": "172.26.1.21"					
	}, (" ("					
	{"_ref":					
	yLjE2OC4xLjlxLg:192.168.1.21/host1.test.com/default",					
	"configure_for_dhcp": false,					
	"host": "host1.test.com",					
		addr": "192.168.1.21"				
	},					
	{"_ref":					
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuN					
	AuMTAuMTAuMjEu:10.10.10.21/host1.test.com/default",					
	"configure_for_dhcp": false, "host": "host1.test.com",					
		addr": "10.10.10.21"				
	}],	····				

```
"name": "host1.test.com",
                  "view": "default"
                                                                                      {"ipv4addrs-":
                         <wapi url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv
                                                                                      [{"ipv4addr":
                 PUT
                         bS50ZXN0Lmhvc3Qx:host1.test.com/default
                                                                                      "192.168.1.21"}]}
               curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
               master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.
               com/default? return fields%2B=ipv4addrs& return as object=1" -d '{"ipv4addrs-
               ":[{"ipv4addr":"192.168.1.21"}]}'
               {"result":
                {"_ref":
               "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",
                 "ipv4addrs":
                 [{"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc
 Remove IP
               yLjl2LjEuMjEu:172.26.1.21/host1.test.com/default",
address from
                  "configure_for_dhcp": false,
a host record
                  "host": "host1.test.com",
                  "ipv4addr": "172.26.1.21"
                 },
                 {"_ref":
               "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMT
               AuMTAuMTAuMjEu: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 <code>next_available_ip</code> by specifying it in the option <code>_function</code>. You can use it in the longhand form or the shorthand form(<code>func</code>). The following example also covers the different forms <code>func</code> supports in shorthand.

Onevetien	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
	POST	<wapi_url>/record:host</wapi_url>	<pre>{"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"}}}]}</pre>
Add host with next available IP address from a network	master/wa '{"name":" s":{"exclude "network", {"result": {"_ref":	"_object_parameters":{"network":"10.10.10.0/24"}}}]} -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid- r/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d e":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"_object_function":"next_available_ip","_param clude":["10.10.10.1","10.10.10.2"]},"_result_field":"ips","_object": ork","_object_parameters":{"network":"10.10.10.0/24"}}}]}' t": d:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",	

```
[{"_ref":
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xM
C4xMC4xMC4zLg: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"
                                    {"name": "wapi.info.com",
 POST
           <wapi_url>/record:host
                                    "ipv4addrs":[{"ipv4addr":
                                    "func:nextavailableip:10.10.10.0/24"}]}
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d
\"name": "wapi.info.com","ipv4addrs":[{"ipv4addr":"func:nextavailableip:10.10.10.0/24"}]}\"
{"result":
 {"_ref":
"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
 "ipv4addrs":
  [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xM
C4xMC4xMC4xLg: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"
                                    {"name":"wapi.info.com",
                                     "ipv4addrs": [{"ipv4addr":
 POST
           <wapi_url>/record:host
                                    "func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2
                                    OC4xLjAvMjQvMA:192.168.1.0/24/default"}]}
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
master/wapi/v2.12/record:host? return fields%2B=name,ipv4addrs& return as object=1 " -d
\"name":"wapi.info.com","ipv4addrs":\["ipv4addr":"func:nextavailableip:network/ZG5zLm5ldHdvcmsk
MTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default "}]}'
{"result":
 {"_ref":
"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
 "ipv4addrs":
 [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xO
TluMTY4LjEuMS4:192.168.1.5/wapi.info.com/default",
  "configure_for_dhcp": false,
  "host": "wapi.info.com".
  "ipv4addr": "192.168.1.5"
 "name": "wapi.info.com",
 "view": "default"
                                     {"name": "wapi.info.com",
 POST
           <wapi_url>/record:host
                                     "ipv4addrs": [{"ipv4addr":
                                    "func:nextavailableip:172.21.10.0/24,default"}]}
```

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                  master/wapi/v2.12/record:host? return fields%2B=name,ipv4addrs& return as object=1 " -d
                  '{"name": "wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip:172.21.10.0/24,default"}]}'
                  {"result":
                   {"_ref":
                  "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
                    "ipv4addrs":
                    [{" ref":
                  "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xN
                  zluMjEuMTAuMS4:172.21.10.1/wapi.info.com/default",
                      "configure_for_dhcp": false,
                      "host": "wapi.info.com",
                      "ipv4addr": "172.21.10.1"
                    }],
"name": "wapi.info.com",
                    "view": "default"
                                                        {"name": "wapi.info.com",
                   POST
                              <wapi_url>/record:host
                                                        "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://grid-
                  master/wapi/v2.12/record:host? return fields%2B=name,ipv4addrs& return as object=1 " -d
                  \"name": "wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip: 192.168.1.10-
                  192.168.1.15"}]}'
                  {"result":
                   {"_ref":
                  "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
                    "ipv4addrs":
                    [{"_ref":
                  "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xO
                  TluMTY4LjEuMTAu: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"
                                                        {"name":"wapi.info.com",
                                                        "ipv4addrs":[{"ipv4addr":
                                                        {"_object_function":"next_available_ip",
                                                        _result_field":"ips",
                   POST
                             <wapi_url>/record:host
                                                        "_object":"network",
                                                        "_object_parameters":{"*Region" : "EMEA"},
 Add host with
                                                        '_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},
 next available
                                                        "use_for_ea_inheritance":true}]}
   IP from a
                  curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
network using a
                  master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d
complex search
                  '{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"_object_function":"next_available_ip","_result_fiel
     (using
                  d":"ips","_object":"network","_object_parameters":{"*Region":
  Extensible
                  "EMEA"},"_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},"use_for_ea_inheritance":true}]}'
Attributes) and
                  {"result":
inherit the EAs
                   {"_ref":
                  "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
                    "ipv4addrs":
                    [{"_ref":
```

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

	REST Method	API Call	Sample Body		
Operation	- Internet	Sample cURL Command			
		Sample Output			
	POST	<wapi_url>/record:host</wapi_url>	{"name":"host.info.com", "ipv4addrs": [{"ipv4addr":"172.26.1.20", "mac":"aa:bb:cc:11:22:21" }]}		
	master/w	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '!"name":"host info com! "ipv4addrs":[{"ipv4addrs":"172 26 1 20!" "mac":"aa:bb:cc:11:22:21"}]}			
Add a host with a fixed address	{"result": {"_ref": "record:h "ipv4ad [{"_ref" "record:h zluMjYuM "config "host": "ipv4a "mac": }], "name"	<pre>master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '{"name":"host.info.com","ipv4addrs":[{"ipv4addr":"172.26.1.20","mac":"aa:bb:cc:11:22:21"}]}' {"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uaG9zdC4xNzluMjYuMS4yMC4:172.26.1.20/host.info.com/default", "configure_for_dhcp": true, "host": "host.info.com", "ipv4addr": "172.26.1.20", "mac": "aa:bb:cc:11:22:21"</pre>			

Add Extensible Attributes to an object

Operation	REST Method	API Call	Sample Body			
Operation		Sample cURL Command				
		Sample Output				
	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm NvbS5pbmZvLndhcGk:wapi.info.com/default</wapi_url></pre>	{"extattrs": {"Site": {"value": "East"}}}			
Add an extensible attribute	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default?_return_fields%2B=extattrs&_return_as_object=1" -d '{"extattrs":{"Site": {"value": "East"}}}'					
attribute	{"result": {"_ref": "record:he "extattrs	ost/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:v s":	vapi.info.com/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.

	REST Method	API Call	Sample Body		
Operation		Sample cURL Command			
		Sample Output			
	GET	<wapi_url>/grid:dns?_return_fields%2B=default_ttl</wapi_url>			
	curl -k -u	admin:infoblox -X GET "https://grid-			
Fetch the default		api/v2.12/grid:dns?_return_fields%2B=default_ttl&_return_as_o	bject=1"		
grid-wide TTL	{"result":				
value	[{"_ref":	"grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Ir t_ttl": 28800	nfoblox",		
	}]}				
	GET	<wapi_url>/zone_auth?fqdn=info.com&_return_fields%2B=u</wapi_url>			
	GEI	se_grid_zone_timer,soa_default_ttl			
	curl -k -u admin:infoblox -X GET "https://grid-				
	master/wapi/v2.12/zone_auth?fqdn=info.com&_return_fields%2B=use_grid_zone_timer,soa_default				
	_ttl&_return_as_object=1"				
Fetch TTL for a	{"result":				
zone	[{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",				
	"fqdn": "info.com",				
	"soa_default_ttl": 28800,				
	"use_grid_zone_timer": false,				
	"view": "default"				
	}]}		("upo grid zono timo"":t=		
	PUT	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmN</wapi_url></pre>	{"use_grid_zone_timer":tr		
	PUI	vbS5pbmZv:info.com/default	ue, "soa_default_ttl":5000}		
	curl -k -u	admin:infobley H 'content type: application/icon' - Y DLIT "https:			
Modify TTL for a	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default?_r				
zone	eturn_fields%2B=use_grid_zone_timer,soa_default_ttl&_return_as_object=1" -d				
20110	eturn_nerus %2b=use_grid_zone_timer,soa_deradit_ttia_return_as_object=1 -d '{"use_grid_zone_timer":true,"soa_default_ttl":5000}'				
	{"result":				
	{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",				
		'info.com'',	,		

	"soa_default_ttl": 5000, "use_grid_zone_timer": true,				
		use_gnd_zone_tmer : true, "view": "default"			
	}}				
	PUT	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVs dC5jb20udGVzdC5tYWlsLiJUaGlzliAiYSlgIm1haWwilCJzZX J2ZXli:mail.test.com/default</wapi_url></pre>	{"use_ttl": true, "ttl":3600}		
		admin:infoblox -H 'content-type: application/json' -X PUT "https			
	master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUa GlzliAiYSlglm1haWwilCJzZXJ2ZXli:mail.test.com/default?_return_fields%2B=ttl&_return_as_object				
		-	%2B=III&_return_as_object		
Modify TTL for a	=1" -d '{"use_ttl": true,"ttl":3600}' {"result":				
record	{" ref":				
		kt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYV	VlsLiJUaGlzliAiYSlglm1ha		
	WwilCJzZXJ2ZXIi:mail.test.com/default",				
	"name": "mail.test.com",				
	"text": "This a mail server", "ttl": 3600,				
		oo, 'default"			
	}}				

Name Server Groups

On anotion	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output	T	
Fetch name server groups and its members	GET <wapi_url>/nsgroup curl -k -u admin:infoblox -X GET "https://grid- master/wapi/v2.12/nsgroup?_return_fields%2B=grid_primary,grid_secondaries&_return_as_object= 1" {"result":</wapi_url>			
	master/w	<pre><wapi_url>/nsgroup admin:infoblox -H 'content-type: application/json' -X POST "http api/v2.12/nsgroup?_return_fields%2B=grid_primary&_return_as' 'test","grid_primary":[{"name":"infoblox.localdomain"}]}'</wapi_url></pre>		
Create a name server group	{"result": {"_ref": "r "grid_pri [{"name "stealt	nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test", mary": ": "infoblox.localdomain", h": false}], condaries": [],		
Add grid secondaries to	PUT	<wapi_url>/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test</wapi_url>	{"grid_secondaries":[{"na me":"member1.localdomai n"}]}	

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
the name server
                   master/wapi/v2.12/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test? return fields%2B=grid primary,gri
     group
                   d_secondaries&_return_as_object=1" -d '{"grid_secondaries":[{"name":"member1.localdomain"}]}'
                   {"result":
                   {"_ref": "nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test",
                     "grid_primary":
                     [{"name": "infoblox.localdomain",
                      "stealth": false
                     }],
                     "grid secondaries":
                     [{"enable_preferred_primaries": false,
                       "grid_replicate": true,
                       "lead": false,
                       "name": "member1.localdomain",
                       "preferred_primaries": [],
                       "stealth": false
                     "name": "test"
```

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_transfer* flag, set the *use_allow_transfer* flag.

0	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	PUT	<pre><wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3Blcn RpZXMkMA:Infoblox?_return_fields%2B=allow_transfer</wapi_url></pre>	{"allow_transfer": [{ "_struct": "addressac", "address":"Any", "permission":"ALLOW"}]}
Enable and specify the zone	master/w	admin:infoblox -H 'content-type: application/json' -X PUT "https api/v2.12/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZX allow_transfer&_return_as_object=1" -d '{"allow_transfer": [{ "_: ac","address":"Any","permission":"ALLOW"}]}'	(MkMA:Infoblox?_return_fie
transfer settings at the grid level	{"result": {"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox", "allow_transfer": [{"_struct": "addressac", "address": "Any", "permission": "ALLOW" }]}}		
	PUT	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVy dGllcyQx:member1.localdomain?_return_fields%2B=allow_t ransfer</wapi_url></pre>	{"allow_transfer": [{ "_struct": "addressac", "address":"10.10.0.0/16", "permission":"ALLOW"}]}
Enable and specify the zone transfer settings at the member level	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain? _return_fields%2B=allow_transfer&_return_as_object=1" -d '{"allow_transfer": [{ "_struct": "addressac","address":"10.10.0.0/16","permission":"ALLOW"}]}' {"result": {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain", "allow_transfer": [{"_struct": "addressac", "addressac", "addressac"; "10.10.0.0/16",		

```
"permission": "ALLOW"
                   }],
"host_name": "member1.localdomain",
                    "ipv4addr": "172.26.1.3"
                                                                                    {"use_allow_transfer":true,
                                                                                     "allow_transfer":
                           <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmN
                                                                                    [{ "_struct": "addressac",
                   PUT
                           vbS5kZW1v:demo.com/default?_return_fields%2B=allow_tr
                                                                                     'address":"192.168.0.1/24
                           ansfer
                                                                                    "permission":"ALLOW"}]}
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-
                 master/wapi/v2.12/zone auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?
                 return fields%2B=allow transfer& return as object=1" -d
  Enable and
                 specify the zone
                 "addressac", "address": "192.168.0.0/24", "permission": "ALLOW" }] }'
transfer settings
                 {"result":
at the zone level
                  {"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default",
                   "allow_transfer":
                   [{"_struct": "addressac",
                    "address": "192.168.0.0/24",
                    "permission": "ALLOW"
                  "fqdn": "demo.com",
                  "view": "default"
```

DNSSEC

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

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	PUT	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx 0LmNvbS5kZW1v:demo.com/default?_return_fields%2 B=use_dnssec_key_params</wapi_url></pre>	{"use_dnssec_key_params": true}
	master/w	admin:infoblox -H 'content-type: application/json' -X PUT "api/v2.12/	
Enable DNSSEC at the zone level	B=use_d	·h/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo nssec_key_params&_return_as_object=1" -d '{"use_dnsse	
the Zone level	{"result": { "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default", "fqdn": "demo.com", "use_dnssec_key_params": true,		
	use_unssec_key_params : true, "view": "default" }}		
	PUT	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx 0LmNvbS5kZW1v:demo.com/default?_return_fields%2 B=use_dnssec_key_params</wapi_url></pre>	{"use_dnssec_key_params": false}
Disable DNSSEC at the zone level	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2		
	B=use_dnssec_key_params&_return_as_object=1" -d '{"use_dnssec_key_params":false}'		
	{"result": { "_ref":	"zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZV	V1v:demo.com/default",

		"fadn":	"demo com"		
		"fqdn": "demo.com", "use_dnssec_key_params": false,			
			"default"		
		}}			
			<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx</wapi_url></pre>	(- -	
		POST	0LmNvbS5kZW1v:demo.com/default?_function=dnsse c_operation	{"operation":"SIGN"}	
Sign	the zone	curl -k -u	admin:infoblox -H 'content-type: application/json' -X PUT	'https:// <mark>grid-</mark>	
		master/w	api/v2.12/		
			h/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo	.com/default?_function=dnsse	
		c_operati	on" -d '{"operation":"SIGN"}'		
		POST	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx 0LmNvbS5kZW1v:demo.com/default?_function=dnsse</wapi_url></pre>	{"key_pair_type":"ZSK"}	
		1 001	c_get_zone_keys	(Key_pail_type : 20K)	
			admin:infoblox -H 'content-type: application/json' -X PUT	'https://grid-	
			api/v2.12/		
	Initiate		h/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo ne_keys" -d '{"key_pair_type":"ZSK"}'	.com/default?_function=dnsse	
	the	{"token":	ne_keys -u { key_pall_type . ZSK }		
	DNSSEC		FOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlı	5ehyQuHLhEMfx8/NznpTWze	
	key	j1\nWXC	Qdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90Llwu	J2F3NQGZCFMpIEq4QS+Xux	
	download		4\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YsIbl		
			:aDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvS /iznkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mB		
			B7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVI		
			ttps://grid-master/http_direct_file_io/req_id-DOWNLOAD-	, , ,	
		03131852	231810852/zsk_key_pair.txt"		
Get the		}	<url_from_the_previous_output></url_from_the_previous_output>		
zone		GET	Example: https://x.x.x.x/http_direct_file_io/req_id-		
key			DOWNLOAD-0313185231810852/zsk_key_pair.txt		
(key			admin:infoblox -H 'content-type: application/force-downloa		
pair type		master/http_direct_file_io/ req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt" -o			
can be			ent of the file looks similar to this:		
ZSK		Keytag: 6			
or VCV)		Size: 102			
KSK)			m. IN DNSKEY 256 3 8 nEiBwpl/ftcaPD1P8Nb/XVhOwEEVzAviEVI IwanVKD II320	7eObbib2EINOgOQv98I n0kml	
		AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FlNOgO9y98Ln0km zSpeLtqYzye10Dxfm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmk			
	the zone	Pmstgug	fcCTLdvBHIECJS/C3XqcT	·	
	key		ey-format: v1.2		
	,	Algorithm Modulus:	n: 8 (RSASHA256)		
			_sAAAAO3ti1bn6M/m4oXt8f3LUuyxdAjKjucwWVCL/0w3c	pairdHsimtiVLc1mLwR7eZ1TT	
			DW6USdmUY384tk6hush/WjFrSpxwA2yPr1b2s0Lk5Qkvk		
			zRlewr9Kj11OXfzExgu+FzkLTxvp6wSrmkY5hs4FV6yIZP	WGA3DStRWv0f/cZDqvDZNp	
		_	4HarfTb1IUfLariT		
		PrivateEx	conent: {0}_{aes}_EAAAADPzg/q9WRyzpo50uikbF6g=		
		{0}_{aes}	_sAAAAG7ErDwDyxx4Xg171crlSdxCMOOKbZmO8JGsX		
			shvS6J1ILwHipTwkfdLyXTi7IasLDFHNWi8csJCMGQSD7		
			+2g8/Z85eqvkvv/JCG+EHbiUYYWUwHMUqpgw/2QmiCT	1NQAkUb6uil9r3IE7gu9nGWJI	
		x4s2u763UScbPtCfjOaRocAFcEaV			

	Remove the stored	Prime1: {0}_{aes}_YAAAAI9bI0ISOndVzocDRXWRBknU3qPBRY4wO2jIIzybdxgmXuPaBAW9CFK+JviUd+86JSEH5iMWay0NguohYK2d6Itg7y/Rnx3pTMJcjN0NrxzM9fRZFfJ7arb3ZEHn5pn7kA== Prime2: {0}_{aes}_YAAAACjERzXr9L/dNo9ZQId42jJmUKSMeBy3gC6Fr45W0iTJ6+PDawnknH1AIBDdbhkKdFDMMuM1ltHo44gYt5aLQPZIAq6GVMjPLX6vQnu/MOPXkkqrNL85BtNlyaZLkcR5Gg== Exponent1: {0}_{aes}_YAAAANmPwbRhwdBAkLQZHRD2seAC3YpYcHTgS7t7kSq48AF1wtfOmXKpcGeYg0Q4gAeTtJI4ELbB0B1ZLRFSDq7UklY+LfrCnl3mZsrM1fKwTkqHwglxuPwSjNJoIAIJ5SxXDw== Exponent2: {0}_{aes}_YAAAAFVZPm9Y3k0nAnSI/NIGC7kqPmjgAFHV6FvklTgjEdD3Oq8S3vDZ1GOvl51i8htJt4D/wvc6RCqP0kRYFISzSAPIFObN/HZtN69I8QtQU2x+k9zDiE0S4IPqAFZy8ndqzg== Coefficient: {0}_{aes}_YAAAAO3i/B+eJC8sD0esfl/7l8lp4x2t7UDwNQh0vWQEp/6a8una6PUHuzTPuin/n+Lrtak6OFkx/xGLNAE7G8KHtHA34XBpDRMQ7L7Yw/3fWbVhvS5DcBXPYNefxiUolb9EeQ== POST
	file using	1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+Xux
	the token	Gmhb874\nGcmMeiFcKXZQInmZVesSkhqKGgBEOC2ufmC4YslbkQv3aQpZApsqybM8ySGNVVSG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iznkDEnDexM\ne9Ypje7f1voxlcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n"}
		<pre>cwapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx OLmNvbS5kZW1v:demo.com/default?_function=dnsse c_export&operation=EXPORT_DS</pre>
		curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_export&operation=EXPORT_DS"
Export trust anchor in DS	Initiate the export	("token": "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWze j1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+Xux Gmhb874\nGcmMeiFcKXZQlnmZVesSkhqKGgBEOC2ufmC4YslbkQv3aQpZApsqybM8ySGNVV SG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/Te C2TSQo/iznkDEnDexM\ne9Ypje7f1voxlcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYp ARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n", "url": "https://grid-master/http_direct_file_io/req_id-DOWNLOAD- 0502010716646241/ds_records.txt" }
format		<url><pre></pre></url>
	Download the DS records	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/ req_id- DOWNLOAD-0502010716646241/ds_records.txt" -o "ds_records.txt" The content of the file leads similar to this:
		The content of the file looks similar to this: demo.com. IN DS 31006 8 1 EBFDB0B60D074F196E78ABAEF837451FD2027EE6 demo.com. IN DS 31006 8 2 7650608506F1037C278C3DB123F3799F089AC8FFFE58835970A8FD570A4C7C52 department.demo.com. IN DS 43081 8 1 008A09A1F7890B5256FA552316FBF806C72940E6 department.demo.com. IN DS 43081 8 2 CC7116368234A1C139C23A98545C35F280AE04AB672FA496A25C9BEEBA83C7CE
		POST <wapi_url>/fileop?_function=downloadcomplete {"token": "eJytUMv\n"}</wapi_url>

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                 master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" :
       Remove
                 "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWze
                 j1\nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEa4QS+Xux
      the stored
      file using
                 Gmhb874\nGcmMeiFcKXZQInmZVesSkhqKGgBEOC2ufmC4YslbkQv3aQpZApsqybM8ySGNVV
                 SG1yPszaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/Te
      the token
                 C2TSQo/iznkDEnDexM\ne9Ypje7f1voxIcqqnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYp
                 ARwdVdB7WDPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n"}'
                          <wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx
                          0LmNvbS5kZW1v:demo.com/default? return fields%2
                  GET
                          B=use_dnssec_key_params,is_dnssec_enabled.dnsse
                          c keys
                 curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/
                 zone auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default? return fields%2
                 B=use dnssec key params,is dnssec enabled,dnssec keys& return as object=1"
                 {"result":
                  { "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default",
                   "dnssec keys":
                   [{"algorithm": "8",
                    "next event date": 1584039064,
                    "public_key":
                 "AwEAAboElNe0pPpO+SXWII8JY05tPL1WKqJV2GcoJqbUbiGa6dgD4NDpZ8taFax7cpSp3TKE
                 ULJiwXCoQ+tpPD8f0IJO0LRtGYnn99VYIX8eNuQ+jH2oJl66hnarmzx99YWowZNIQ4UsJiLe1bo1
                 +5Qt0vsgN8m0bLJHLgDnUBWga7BmNXsjVgXJD/QRHyfZdsSX5qbrvnogzZTjFYe+wsA2mZXvv
                 5MhOE3qdCpOv3W4GkX//x3HaRU1R1ozKlmpQM6Rk4+EUjjNT9gGXt2EMGGZDNBgvhMbjzuB
                 huyu0GX5zqVi5ZkN++MOYQQUQ5EFKgJPW7oFJMtTYi4XmV7bwlZA/rM=",
                    "status": "ACTIVE",
                    "tag": 4654,
                     "type": "KSK"
                   {"algorithm": "8",
Get a list of the
                    "next_event_date": 1555095064,
  zone keys
                     "public key":
                 "AwEAAd2v3QOi88A/SDjY62yX33euAHSqdp+ORs98xRv93GmYli3zVMGfbglgJdhQ8UvRiCNBu
                 +rECpZBzV//xgRh+WVoHAAPILGpuKuoqy7q82a9fenQPhAC1fP61pVJpl06bVEGVNS8GsARgM
                 nf6Lf084Dri32tq4WLfJdoj+rd4wir",
                     "status": "PUBLISHED",
                     "tag": 49428,
                     "type": "ZSK"
                    {"algorithm": "8",
                     "next_event_date": 1555095064,
                     "public key":
                 "AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FINOqO9y98Ln0km
                 IzSpeLtqYzye10Dxm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmk
                 PmstgugfcCTLdvBHIECJS/C3XqcT",
                     "status": "ACTIVE",
                     "tag": 61578,
                     "type": "ZSK"
                    }],
                  "fqdn": "demo.com",
                  "is_dnssec_enabled": true,
                  "use_dnssec_key_params": true,
                  "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.

On anation	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
		<pre><wapi_url>/zone_rp admin:infoblox -X GET "https://grid- api/v2.12/zone_rp?_return_fields%2B=rpz_policy&_retur</wapi_url></pre>	l n_as_object=1"		
Fetch RPZs	"fqdn": "rpz_p	ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5nb29nbC53d3 "www.googl.com", plicy": "NXDOMAIN", "default"			
	POST	<wapi_url>/zone_rp</wapi_url>	{"fqdn": "inblox.com", "rpz_policy": "SUBSTITUTE", "rpz_severity": "WARNING", "substitute_name": "infoblox.com"}		
Create a RPZ	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/zone_rp?_return_fields%2B=fqdn,rpz_policy,rpz_severity,substitute_name&_return_as_object=1" -d '{"fqdn": "inblox.com","rpz_policy": "SUBSTITUTE","rpz_severity": "WARNING","substitute_name": "infoblox.com"}'				
	{"result":				
	POST	<wapi_url>/record:rpz:a</wapi_url>	{"name": "server.inblox.com", "ipv4addr":"1.1.1.156", "rp_zone":"inblox.com"}		
Add a substitution rule	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:a?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"server.inblox.com","ipv4addr":"1.1.1.156","rp_zone":"inblox.com"}'				
for DNS A records	Y:server. "ipv4add "name":	oz:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm9 inblox.com/default", r": "1.1.1.156", "server.inblox.com", ": "inblox.com",	9ibG93LHNlcnZlciwxLjEuMS4xNT		

	"view": "	default"	
	POST	<wapi_url>/record:rpz:ptr</wapi_url>	{"name": "135.10.10.10.in-addr.arpa.inblox.com ", "ipv4addr":"10.10.10.135", "ptrdname": "inblox.com", "rp_zone":"inblox.com"}
Add a substitution rule	master/w '{"name":	admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/record:rpz:ptr?_return_fields%2B=name,rp_zo "135.10.10.10.in-addr.arpa.inblox.com ","ipv4addr":"10.com","rp_zone":"inblox.com"}	ST "https:// <mark>grid-</mark> ne&_return_as_object=1" -d
for DNS PTR records	yLjEwLjE "name": "ptrdnar "rp_zon	oz:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5jb20uaV wLjEwLjEzNS5pbmZvYmxvdy5jb20:135.10.10.10.in-add "135.10.10.10.in-addr.arpa.inblox.com", me": "inblox.com", e": "inblox.com", 'default"	
	POST	<wapi_url>/record:rpz:a:ipaddress</wapi_url>	{"name":"1.1.1.6.inblox.com", "ipv4addr":"2.2.2.6", "rp_zone":"inblox.com"}
Add a substitution rule for IP trigger policy	substitution rule for IP trigger {"_ref": {"_ref":		
		<pre><wapi_url>/record:rpz:cname admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/record:rpz:cname?_return_fields%2B=name,rp</wapi_url></pre>	rcanonical":"", rp_zone":"inblox.com"} T "https://grid-
Add a Block Domain Name (No Such Domain) Rule	'{"name":"test.inblox.com","canonical":"","rp_zone":"inblox.com"}' {"result": {"_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy50ZXN0:tes t.inblox.com/default", "canonical": "", "name": "test.inblox.com", "rp_zone": "inblox.com", "view": "default" }}		
Add a Block Domain Name (No Data) Rule	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"demo.inblox.com", "canonical":"*", "rp_zone":"inblox.com"}

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                 master/wapi/v2.12/record:rpz:cname? return fields%2B=name,rp zone& return as object=1" -d
                 '{"name":"demo.inblox.com","canonical":"*","rp_zone":"inblox.com"}'
                 {"result":
                  {"_ref":
                 record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5kZW1v:de
                 mo.inblox.com/default",
                   "canonical": "*",
                   "name": "demo.inblox.com",
                   "rp zone": "inblox.com",
                   "view": "default"
                                                                                  {"name":"pass.inblox.com",
                                                                                  "canonical":"pass.inblox.com",
                  POST
                            <wapi url>/record:rpz:cname
                                                                                  "rp_zone":"inblox.com"}
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                 master/wapi/v2.12/record:rpz:cname? return fields%2B=name,rp zone& return as object=1" -d
                 '{"name":"pass.inblox.com","canonical":"pass.inblox.com","rp_zone":"inblox.com"}'
Add a Passthru
                 {"result":
Domain Name
                  { " ref":
                 "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5wYXNz:pa
     Rule
                 ss.inblox.com/default",
                  "canonical": "pass.inblox.com",
                  "name": "pass.inblox.com",
                  "rp_zone": "inblox.com",
                  "view": "default"
                                                                                  {"name":"sub.inblox.com",
                  POST
                            <wapi_url>/record:rpz:cname
                                                                                  "canonical":"test".
                                                                                  "rp zone":"inblox.com"}
                 curl -k -u admin;infoblox -H 'content-type; application/ison' -X POST "https://grid-
                 master/wapi/v2.12/record:rpz:cname? return fields%2B=name.rp zone& return as object=1" -d
                 '{"name":"sub.inblox.com","canonical":"test","rp_zone":"inblox.com"}'
    Add a
                 {"result":
  Substitute
                  {"_ref":
Domain Name
                 record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5zdWI:sub.i
     Rule
                 nblox.com/default".
                  "canonical": "test".
                  "name": "sub.inblox.com",
                  "rp_zone": "inblox.com",
                   "view": "default"
                                                                                  {"name":"10.10.10.200.inblox.co
                                                                                  m",
                  POST
                            <wapi url>/record:rpz:cname:clientipaddress
                                                                                  "canonical":"".
                                                                                  "rp_zone":"inblox.com"}
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
 Add a Block
                 master/wapi/v2.12/record:rpz:cname:clientipaddress? return fields%2B=name,rp zone& return as
   Client IP
                  object=1" -d '{"name":"10.10.10.200.inblox.com","canonical":"","rp_zone":"inblox.com"}'
 Address (No.
                 {"result":
Such Domain)
                  {"_ref":
     Rule
                 record:rpz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmx
                 vdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjlwMC4zMg:10.10.10.200.inblox.com/default",
                  "canonical": ""
                  "name": "10.10.10.200.inblox.com".
                  "rp zone": "inblox.com",
```

	"view":	"default"			
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.210.inblox.co m", "canonical":"*", "rp_zone":"inblox.com"}		
Add a Block Client IP	master/w	admin:infoblox -H 'content-type: application/json' -X PO papi/v2.12/record:rpz:cname:clientipaddress?_return_fiel 1" -d '{"name":"10.10.10.210.inblox.com","canonical":"*",	ST "https://grid- ds%2B=name,rp_zone&_return_as		
Address (No Data) Rule	{"_ref": "record:r vdy5ycHetail "canon "name' "rp_zor	pz:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLlsotY2xpZW50LWlwLjEwLjEwLjEwLjIxMC4zMg:10.10.10.ical": "*", ': "10.10.10.210.inblox.com", ne": "inblox.com", "default"			
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.220.inblox.co m", "canonical":"rpz-passthru", "rp_zone":"inblox.com"}		
Add a Passthru Client IP Address Rule	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_retur_object=1" -d '{"name":"10.10.10.220.inblox.com","canonical":"rpz-				
	POST	<wapi_url>/record:rpz:cname:clientipaddressdn</wapi_url>	{"name":"10.10.10.230.inblox.co m", "canonical":"test", "rp_zone":"inblox.com"}		
Add a Substitute Domain Name (Client IP Address) Rule	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddressdn?_return_fields%2B=name,rp_zone&_ras_object=1" -d '{"name":"10.10.10.230.inblox.com","canonical":"test","rp_zone":"inblox.com"}' {"result": {"_ref": "record:rpz:cname:clientipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbrmxvdy5ycHotY2xpZW50LWlwLjEwLjEwLjEwLjIzMC4zMg:10.10.10.230.inblox.com/default", "canonical": "test", "name": "10.10.10.230.inblox.com", "rp_zone": "inblox.com", "view": "default" }				
Add a Block IP Address (No	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.10.inblox.com", "canonical":"", "rp_zone":"inblox.com"}		

Such Domain)	ourl k	admininfolloy, H 'content type: application/icen', V DO	ST "https://grid				
Such Domain) Rule	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:ipaddress?_return_fields%2B=name,rp_zone&_return_as_						
11010		'{"name":"5.5.5.10.inblox.com","canonical":"","rp_zone"					
	{"result":						
	{"_ref":						
	"record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5						
	ycHotaXAuNS41LjUuMTAuMzI:5.5.5.10.inblox.com/default", "canonical": "".						
		ar: ", "5.5.5.10.inblox.com",					
		e": "inblox.com",					
	"view": '						
	}}						
			{"name":"5.5.5.25.inblox.com",				
	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	"canonical":"*",				
			"rp_zone":"inblox.com"}				
		admin:infoblox -H 'content-type: application/json' -X PO					
	master/w	api/v2.12/record:rpz:cname:ipaddress?_return_fields%2	2B=name,rp_zone&_return_as_obj				
Add a Block IP	ect=1"-d {"result":	'{"name":"5.5.5.25.inblox.com","canonical":"*","rp_zone	":"Inbiox.com"}				
Address (No	{ "esuit . {"_ref":						
Data) Rule		oz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZW	/ZhdWx0I mNvhS5nhmZvYmxvdv5				
2 4.44) 1.14.10		AuNS41LjUuMjUuMzI:5.5.5.25.inblox.com/default",	Zhavvaehiivvaeopsinzvimavayo				
		cal": "*",					
	"name"	: "5.5.5.25.inblox.com",					
	"rp_zone": "inblox.com",						
	., "view":	"default"					
	}}	I	(!!				
	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.100.inblox.com", "canonical":"5.5.5.100",				
	F031	<wapi_un>/record.rpz.cname.ipaddress</wapi_un>	"rp_zone":"inblox.com"}				
	curl -k -u	admin:infoblox -H 'content-type: application/json' -X PO					
		api/v2.12/record:rpz:cname:ipaddress?_return_fields%2					
		'{"name":"5.5.5.100.inblox.com","canonical":"5.5.5.100"	,"rp_zone":"inblox.com"}'				
Add a Passthru	{"result":						
IP Address Rule	{"_ref":						
	"record:rpz:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5						
	ycHotaXAuNS41LjUuMTAwLjMy:5.5.5.100.inblox.com/default",						
	"canonical": "5.5.5.100", "name": "5.5.5.100.inblox.com",						
	"rp_zone": "inblox.com",						
		"default"					
	}}						
			{"name":"5.5.5.200.inblox.com",				
	POST	<wapi_url>/record:rpz:cname:ipaddressdn</wapi_url>	"canonical":"test",				
	"rp_zone":"inblox.com"}						
۸ dd م	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-						
Add a Substitute	master/wapi/v2.12/record:rpz:cname:ipaddressdn?_return_fields%2B=name,rp_zone&_return_as_o						
Domain Name	bject=1" -d '{"name":"5.5.5.200.inblox.com","canonical":"test","rp_zone":"inblox.com"}' {"result":						
(IP Address)	{"_ref":						
Rule		oz:cname:ipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9k2	ZWZhdWx0LmNvbS5pbmZvYmxvd				
	y5ycHota	XAuNS41LjUuMjAwLjMy:5.5.5.200.inblox.com/default",					
	"canonical": "test",						
	"name": "5.5.5.200.inblox.com",						
	"rp_zone": "inblox.com",						

```
"view": "default"
                 }}
                           <wapi url>/allrpzrecords?zone=inblox.com
                 curl -k -u admin:infoblox -X GET "https://grid-
                 master/wapi/v2.12/allrpzrecords?zone=inblox.com& return fields%2B=rpz rule& return as object
                 =1"
                 {"result":
                 [{"_ref":
                 "allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5p
                 bmZvYmxvdyxycHotaXAuMS4xLjEuNi4zMiwyLjIuMi42:1.1.1.6",
                   "comment": ""
                   "name": "1.1.1.6"
                   "rpz_rule": "SubstituteIPv4AddressRecord",
                   "type": "record:rpz:a:ipaddress",
                   "view": "default",
                   "zone": "inblox.com"
                  {"_ref":
                 allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
                 b20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwLjMy:5.5.5.10",
                   "comment": ""
                   "name": "5.5.5.10",
                   "rpz_rule": "BlockNxdomainIpaddr",
                   "type": "record:rpz:cname:ipaddress",
                   "view": "default",
                   "zone": "inblox.com"
                  },
                  {"_ref":
Fetch all objects
                 allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
belonging to a
                 b20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjI1LjMy:5.5.5.25",
     RPZ
                   "comment": ""
                   "name": "5.5.5.25",
                   "rpz_rule": "BlockNoDatalpaddr",
                   "type": "record:rpz:cname:ipaddress",
                   "view": "default",
                   "zone": "inblox.com"
                 allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
                 b20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjEwMC4zMg:5.5.5.100",
                   "comment": ""
                   "name": "5.5.5.100",
                   "rpz_rule": "Passthrulpaddr",
                   "type": "record:rpz:cname:ipaddress",
                   "view": "default",
                   "zone": "inblox.com"
                 allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
                 b20uaW5mb2Jsb3cucnB6LWlwLjUuNS41LjIwMC4zMg:5.5.5.200",
                   "comment": ""
                   "name": "5.5.5.200",
                   "rpz_rule": "SubstituteIPAddressCname",
                   "type": "record:rpz:cname:ipaddressdn",
                   "view": "default",
                   "zone": "inblox.com"
```

```
{"_ref":
"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5j
b20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMDAuMzI:10.10.10.200",
  "comment": ""
 "name": "10.10.10.200",
 "rpz_rule": "BlockNxdomainClientIpaddr",
 "type": "record:rpz:cname:clientipaddress",
 "view": "default",
 "zone": "inblox.com"
},
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
b20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMTAuMzI:10.10.10.210",
 "comment": "".
 "name": "10.10.10.210",
 "rpz_rule": "BlockNoDataClientlpaddr",
 "type": "record:rpz:cname:clientipaddress", "view": "default",
 "zone": "inblox.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
b20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMjAuMzI:10.10.10.220",
 "comment": ""
 "name": "10.10.10.220",
 "rpz_rule": "PassthruClientIpaddr",
 "type": "record:rpz:cname:clientipaddress",
 "view": "default",
 "zone": "inblox.com"
 },
{"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucv5iaW5kX2NuYW1IJC5fZGVmYXVsdC5i"
b20uaW5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMzAuMzI:10.10.10.230",
 "comment": "".
 "name": "10.10.10.230",
 "rpz_rule": "SubstituteClientIPAddressCname",
 "type": "UNSUPPORTED",
 "view": "default",
 "zone": "inblox.com"
 },
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3B0ciQuX2RlZmF1bHQuY29tL"
mluZm9ibG93LmFycGEuaW4tYWRkci4xMC4xMC4xMC4xMzUuaW5mb2Jsb3cuY29t: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": "inblox.com"
 },
 {" ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
b20uaW5mb2Jsb3cuZGVtbw:demo",
 "comment": "".
```

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```
"name": "demo",
  "rpz_rule": "BlockNoDataDomain",
  "type": "record:rpz:cname",
  "view": "default",
"zone": "inblox.com"
 },
 {"_ref":
"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1lJC5fZGVmYXVsdC5j
b20uaW5mb2Jsb3cucGFzcw:pass",
  "comment": "",
  "name": "pass",
  "rpz_rule": "SubstituteCName",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "inblox.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5p"
bmZvYmxvdyxzZXJ2ZXIsMS4xLjEuMTU2:server",
  "comment": "",
  "name": "server",
  "rpz_rule": "SubstituteARecord",
  "type": "record:rpz:a",
  "view": "default",
  "zone": "inblox.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j"
b20uaW5mb2Jsb3cuc3Vi:sub",
  "comment": "",
  "name": "sub",
  "rpz_rule": "SubstituteCName",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "inblox.com"
 },
 {"_ref":
"allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5j
b20uaW5mb2Jsb3cudGVzdA:test",
  "comment": "",
  "name": "test",
  "rpz_rule": "BlockNxdomainDomain",
  "type": "record:rpz:cname",
"view": "default",
  "zone": "inblox.com"
}]
```

DNS Traffic Control

Resource	Operation	REST Method	API Call	Sample Body (for POST and PUT)	
type	Operation		Sample cURL	Command	
		Sample Output			
		GET	<wapi_url>/dtc:server</wapi_url>		
			admin:infoblox -X GET "https://grid-		
			pi/v2.12/dtc:server?_return_as_objec	it=1"	
		"host": "	dtc:server/ZG5zLmlkbnNfc2VydmVyJ 1.1.1.25", : "server1"	lHNlcnZlcjE:server1",	
	Fetch information	}, {"_ref": " "host": " "name":	dtc:server/ZG5zLmlkbnNfc2VydmVyJ 10.10.10.20",	lGhvc3Q:host",	
DTC Servers		TEMPNAN "host": "e	r/ZG5zLmlkbnNfc2VydmVyJFNFUlZF //E_22127", example.com", "SERVER_TEMPNAME_22127"	UI9URU1QTkFNRV8yMjEyNw:SERVER_	
		POST	<wapi_url>/dtc:server</wapi_url>	{"name": "test-server", "host": "2.2.2.56"}	
	Create	master/wa '{"name": ' {"result": {"_ref": "a "host": "a	admin:infoblox -H 'content-type: applic pi/v2.12/dtc:server?_return_fields%2l 'test-server","host": "2.2.2.56"}' dtc:server/ZG5zLmlkbnNfc2VydmVyJl 2.2.2.56", "test-server"	B=name,host&_return_as_object=1" -d	
		}}	1031-301701		
		GET	<wapi_url>/dtc:pool</wapi_url>		
		curl -k -u a	admin:infoblox -X GET "https://grid- pi/v2.12/dtc:pool? return as object=	4"	
	Fetch information	{"result": [{"_ref": "	dtc:pool/ZG5zLmlkbnNfcG9vbCRwb2 "pool1"		
DTC Pools		}, {"_ref": "dtc:pool/Z _22127",	•	TVBOQU1FXzIyMTI3:POOL_TEMPNAME	
	Create	POST	<wapi_url>/dtc:pool</wapi_url>	{"name": "test-pool", "availability": "ALL", "lb_preferred_method":"GLOBAL_AVAIL ABILITY", "monitors": ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9ua XRvcl9pY21wJGljbXA:icmp"], "servers": [{"ratio": 4, "server":	

Г			Heltonoom com/70 E=1 mollish a Nife O\ / calcas\ / citt	
			"dtc:server/ZG5zLmlkbnNfc2VydmVyJH Rlc3Qtc2VydmVy:test-server"}]}	
	master/wa '{"name": " "ALL","lb_! ["dtc:moniti 4,"server": {"result": {"_ref": "c "name": "servers' [{"ratio":	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"name": "test-pool","availability": "ALL","lb_preferred_method":"GLOBAL_AVAILABILITY","monitors": ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaXRvcl9pY21wJGljbXA:icmp"],"servers": [{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"}]}'		
	"server' }]}}	: "dtc:server/ZG5zLmlkbnNfc2Vydm\	/yJHRlc3Qtc2VydmVy:test-server"	
	PUT	<wapi_url>/dtc:pool/ZG5zLmlkbn NfcG9vbCR0ZXN0LXBvb2w:test- pool</wapi_url>	{"servers": [{"ratio": 4,	
Modify to add another server	master/wa pool?_retu 4,"server": 4,"server": {"result":	"dtc:server/ZG5zLmlkbnNfc2VydmVy	ration/json' -X PUT "https://grid- /bCR0ZXN0LXBvb2w:test- _as_object=1" -d '{"servers": [{"ratio": /JHRlc3Qtc2VydmVy:test-server" },{"ratio": /JHRlc3Qtc2VydmVyMg:test-server2"}]}'	
	"name": " "servers": [{"ratio":	test-pool", : 4, ": "dtc:server/ZG5zLmlkbnNfc2Vydm\ 4,	/yJHRlc3Qtc2VydmVy:test-server" /yJHRlc3Qtc2VydmVyMg:test-server2"	
Modify the ratio	PUT	<wapi_url>/dtc:pool/ZG5zLmlkbnN fcG9vbCR0ZXN0LXBvb2w:test- pool</wapi_url>	{"servers": [{"ratio": 20,	
	master/wa pool?_retu 20,"server	": "dtc:server/ZG5zLmlkbnNfc2Vydm\ 0,"server": "dtc:server/ZG5zLmlkbnN	ation/json' -X PUT "https://grid- dbCR0ZXN0LXBvb2w:test- _as_object=1" -d '{"servers": [{"ratio":	

		"name": "servers" [{"ratio": "server" }, {"ratio":	20, ": "dtc:server/ZG5zLmlkbnNfc2Vyo 80,	ZXN0LXBvb2w:test-pool", dmVyJHRlc3Qtc2VydmVy:test-server" dmVyJHRlc3Qtc2VydmVyMg:test-server2"	
		curl -k -u a	admin:infoblox -X GET "https://grid		
	Fetch information	{"result": [{"_ref": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiRMQkROX1RFTVBOQU1FXzlyMTl3:LBDN_TEMPNAME _22127", "name": "LBDN_TEMPNAME_22127"			
DTC Load Balanced		POST	<wapi_url>/dtc:lbdn</wapi_url>	{"auth_zones": ["zone_auth/ZG5zLnpvbmUkLl9kZWZhd Wx0LmNvbS5kdGM:dtc.com/default"], "lb_method": "ROUND_ROBIN", "name": "test-lbdn", "patterns": ["server.dtc.com"], "pools": [{"ratio": 4, "pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR 0ZXN0LXBvb2w:test-pool"}]}	
Domain Name	Create	OZXNOLXBvb2w:test-pool"}]} curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:lbdn?_return_fields%2B=name,pools,auth_zones,patterns8_as_object=1" -d '{"auth_zones":["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.cult"],"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",		oplication/json' -X POST "https://grid- 2B=name,pools,auth_zones,patterns&_return LI9kZWZhdWx0LmNvbS5kdGM:dtc.com/defa : "test-lbdn","patterns": ZXN0LXBvb2w:test-pool"}]}' XN0LWxiZG4:test-lbdn", /x0LmNvbS5kdGM:dtc.com/default"],	

IP address management related scenarios

Add a network or container

	REST Method	API Call	Sample Body		
Operation	Wiethou	Sample	cURL Command		
			nple Output		
	POST	<wapi_url>/network</wapi_url>	{"network": "1.1.1.0/24"}		
	master/w "1.1.1.0/2	api/v2.12/network?_return_fields%2	plication/json' -X POST "https://grid- 2B=network&_return_as_object=1 " -d '{"network":		
Add a network	"networ	'network/ZG5zLm5ldHdvcmskMS4x 'k": "1.1.1.0/24", 'k_view": "default"	kLjEuMC8yNC8w:1.1.1.0/24/default",		
	POST	<wapi_url>/network</wapi_url>	{"network": "2.2.2.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.3"}]}		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network": "2.2.2.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.3"}]}'				
Add a network and assign to a member	"memb [{"_stru "ipv4a "ipv6a "nam }], "netwo	'network/ZG5zLm5ldHdvcmskMi4ylers": uct": "dhcpmember", addr": "172.26.1.3", addr": null, e": "member1.localdomain" ork": "2.2.2.0/24", ork_view": "default"	_jluMC8yNC8w:2.2.2.0/24/default",		
	POST	<wapi_url>/network</wapi_url>	{"network": "10.10.10.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.2"}], "auto_create_reversezone":true}		
Add a network and automatically create the	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network": "10.10.10.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.2"}],"auto_create_reversezone":true}'				
corresponding reverse lookup zone	{"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"
                      }}
                                                                           {"network":"192.168.0.0/24",
                                                                            "options":
                                                                            [{"name": "domain-name-servers",
                                                                              "num": 6,
                                                                             "use_option": true,
                                                                             "value": "192.168.0.2".
                       POST
                                                                             "vendor_class": "DHCP"},
                                 <wapi_url>/network
                                                                             {"name": "routers",
                                                                              "num": 3.
                                                                             "use_option": true,
                                                                             "value": "192.168.0.1",
                                                                             "vendor_class": "DHCP"}],
                                                                           "use_options":true}
                      curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                      master/wapi/v2.12/network? return fields%2B=options& return as object=1" -d
                      '{"network":"192.168.0.0/24","options":[{"name": "domain-name-servers","num": 6,"use_option":
                      true, "value": "192.168.0.2", "vendor_class": "DHCP"}, "name": "routers", "num": 3, "use_option":
                      true, "value": "192.168.0.1", "vendor_class": "DHCP"}], "use_options":true}'
                      {" ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OS4wLjAvMjQvMA:192.168.0.0/24/default",
Add a network with
  DHCP options
                       "network": "192.168.0.0/24",
                       "network_view": "default",
                       "options":
                          [{"name": "dhcp-lease-time",
                           "num": 51,
                           "use_option": false,
                           "value": "43200",
                           "vendor_class": "DHCP"}.
                          {"name": "domain-name-servers",
                           "num": 6,
                           "use_option": true,
                           "value": "192.168.0.2"
                           "vendor_class": "DHCP"},
                          {"name": "routers",
                           "num": 3,
                           "use_option": true,
                           "value": "192.168.0.1",
                           "vendor_class": "DHCP"}
                                                                           {"network":
                                                                           "func:nextavailablenetwork:10.0.0.0/8,defaul
                       POST
                                                                           "network_view":"default",
                                 <wapi_url>/network
                                                                           "extattrs":
                                                                           {"Country":{"value":"UK"},
                                                                           "Region":{"value":"EMEA"}}}
Add a network from
                      curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
   next available
                      master/wapi/v2.12/network? return fields%2B=network,members,extattrs& return as object=1"
     network
                      -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 API Call			
Operation	Sample cURL Command			
	Sample Output			
Search for a network	GET <wapi_url>/network?network=172.21.10.0/24 curl -k -u admin:infoblox -X GET "https://grid- master/wapi/v2.12/network?network=172.21.10.0/24&_return_as_object=1" {"result": [{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172.21.10.0/24/default",</wapi_url>			
	GET <wapi_url>/network?network~=192.168</wapi_url>			
	curl -k -u admin:infoblox -X GET "https://grid-			
	master/wapi/v2.12/network?network~=192.168&_return_as_object=1"			
Search for network(s) that begins with a	{"result": [{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default", "network": "192.168.1.0/24", "network_view": "default"			
certain value (192.168)	}, {"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMDEuMC8yNC8w:192.168.101.0/24/default", "network": "192.168.101.0/24", "network_view": "default" }]}			
	GET <wapi_url>/network?network~=.0/27</wapi_url>			
	curl -k -u admin:infoblox -X GET "https://grid- master/wapi/v2.12/network?network~=.0/27&_return_as_object=1"			
Search for network(s) based on the netmask (/27)	{"result": [{"_ref": "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjcvMA:10.10.100.0/27/default",			
(/21)	{"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNy8x:1.1.1.0/27/demo", "network": "1.1.1.0/27", "network_view": "demo" }]}			
	GET <wapi_url>/network?_return_fields%2B=extattrs&*Site:=HQ</wapi_url>			
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network?_return_fields%2B=extattrs&*Site%3A=HQ&_return_as_object=1"			
Search by EA (Networks in the HQ)	{"result": [{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default", "extattrs": {"Building": {"value": "Remote"}, "Site": {"value": "HQ"}},			

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

Get next available subnet

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

Onesation	REST Method	API Call	Sample Body
Operation		Sample cURL Comman	d
		Sample Output	
Create a network from the next available subnet from a network in the Region(EA) EMEA	master/w '{"network :"network "EMEA"}, "result" "_re "network/ "network/	·	_return_as_object=1 " -d _result_field":"networks","_object" ult"}'

Get next available address from a subnet

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

REST Method	API Call	Sample Body
	Sample cURL Command	
	Sample Output	
POST	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLj EwLjAvMjQvMA:172.21.10.0/24/default?_function=n ext_available_ip</wapi_url></pre>	{"num":1}
master/w	api/v2.12/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLj <i>P</i>	AvMjQvMA:172.21.10.0/24/
{"result":		
POST	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLj EwLjAvMjQvMA:172.21.10.0/24/default?_function=n ext_available_ip</wapi_url></pre>	{"num":5}
ext_available_ip curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172.21 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", "172.21.10.5" **Note that is application/json' -X POST "https://grid-master/wapi/son' -X POST "htt		
	POST curl -k -u master/w default? {"result": {"ips": ["172.] }} POST curl -k -u master/w default? {"result": {"ips": ["172.2 "172.2 "172.2 "172.2	Sample cURL Command Sample Output Sample Output

Reparent subnets while deleting network container

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

Onevetion	REST Method	API Call	
Operation		Sample cURL Command	
		Sample Output	
	DELETE	<pre><wapi_url>/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4 wLzgvMA:10.0.0.0/8/default?remove_subnets=false</wapi_url></pre>	
Reparent subnets while deleting network	master/wa	dmin:infoblox -H 'content-type: application/json' -X POST "https://grid- bi/v2.12/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzg 0.0/8/default?remove_subnets=false&_return_as_object=1"	
container	{"result": {"_ref": "networkco efault"}}	ntainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzgvMA:10.0.0.0/8/d	

Get all the addresses based on a search criteria

	REST Method	API Call
Operation	METHOU	Sample cURL Command
		Sample Output
Get addresses in a subnet	curl -k -u a master/way {"result":	<pre></pre>
Get addresses in a given range (10.10.10.252 - 10.10.10.254)	curl -k -u a master/wap 4&_return_ {"result": [{"_ref": "i "ip_addr "is_confl	<wapi_url>/ipv4address?ip_address>=10.10.10.252&&ip_address<=10.10.10.254 dmin:infoblox -X GET "https://grid-pi/v2.12/ipv4address?ip_address%3E=10.10.10.252&ip_address%3C=10.10.10.25 _as_object=1" pv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUyLzA:10.10.10.252", ess": "10.10.10.252", lict": false, ddress": "",</wapi_url>

```
"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

Oneration	REST Method	API Call	Sample Body			
Operation		Sample cURL Command				
		Sample Output				
	GET	<wapi_url>/network/ZG5zLm5ldHdvcmskMTA</wapi_url>				
	OLI	uMS4wLjAvMTYvMA:10.1.0.0/16/default				
	curl -k -u a	admin:infoblox -X GET "https://grid-				
	master/wa	pi/v2.12/network/ZG5zLm5ldHdvcmskMTAuMS4	wLjAvMTYvMA:10.1.0.0/16/defa			
	ult?_return_fields%2B=zone_associations&_return_as_object=1"					
	{"result":					
List zone associations on	{"_ref": "network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0.0/16/default",					
a network	"network": "10.1.0.0/16",					
	"network_view": "default",					
	"zone_associations":					
	[{"fqdn": "info.com",					
	"is_de	"is_default": true,				
	"view":	"view": "default"				
	}]}}					
Add a zone association	PUT	<wapi_url>/network/ZG5zLm5ldHdvcmskMTc</wapi_url>	{"zone_associations": [{"fqdn":			
to a network	101	yLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default	"test.org"."is default":true}]}			

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			
	POST	<wapi_url>/fixedaddress</wapi_url>	{"ipv4addr":"192.168.1.100", "mac":"aa:bb:cc:11:22:21"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" - d '{"ipv4addr":"192.168.1.100","mac":"aa:bb:cc:11:22:21"}'			
Add a fixed address	{"result": {"_ref": "fixedadd	ress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC	:4xI iFwMC4wI i4·192 168 1 100	
	/default", "ipv4addr": "192.168.1.100", "mac": "aa:bb:cc:11:22:21",			
	"network_view": "default" }}			
	POST	<wapi_url>/fixedaddress</wapi_url>	{"ipv4addr":"172.26.1.200", "mac":"00:00:00:00:00:00"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"172.26.1.200","mac":"00:00:00:00:00"}'			
Add a fixed address reservation	{"result":			
Add a fixed address with next available IP	POST	<wapi_url>/fixedaddress?<u>return_fields=ipv4ad</u> <u>dr</u></wapi_url>	{"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://grid-master/wapi/v2.12/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d !/"ipv4addr":"funcingytovojloblejc:10.1.0.0/16" "mace":"fffffffffffffffff			
	d '{"ipv4addr":"func:nextavailableip:10.1.0.0/16","mac":"ff: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"			
Add an IPv6 fixed	POST	<wapi_url>/ipv6fixedaddress</wapi_url>	{"ipv6addr":"2001:0db8:85a3:0 000:0000:8a2e:0370:7334", "duid":"00:02:00:01:02:03:04:0 5:07:a0"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/ipv6fixedaddress?_return_fields%2B=ipv6addr,duid&_return_as_object= 1" -d '{"ipv6addr":"2001:0db8:85a3:0000:0000:8a2e:0370:7334","duid":"00:02:00:01:02:03:04:05: 07:a0"}'			
address	{"result":			

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	
Operation	Sample cURL Command		
	Sample Output		
	GET	<pre><wapi_url>/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21</wapi_url></pre>	
	curl -k -u	admin:infoblox -X GET "https://grid-	
	master/w	api/v2.12/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21&_return	
	_as_object=1"		
	{"result":		
Search fixed address by	[{"_ref":		
MAC	"fixedadd	ress/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.10	
	0/default"	,	
	"ipv4addr": "192.168.1.100",		
	"mac": "aa:bb:cc:11:22:21",		
	"networ	k_view": "default"	
	}]}		

Complex search for a fixed address by Microsoft Server

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
	Sample Output			
	PUT	<pre><wapi_url>/fixedaddress?_method=GET&_ret urn_fields%2B=ipv4addr,mac,ms_server,nam e</wapi_url></pre>	{"ms_server": {"_struct": "msdhcpserver", "ipv4addr": "192.168.4.21"}}	
	curl -k -u admin:infoblox -X PUT "https://grid-master/wapi/v2.12/fixedaddress?_method=GET&_return_fields%2B=ipv4addr,mac,ms_serv er,name&_return_as_object=1" -d '{"ms_server":{"_struct": "msdhcpserver","ipv4addr": "192.168.4.21"}}'			
Search for a fixed address by Microsoft Server	{"result": [{"_ref": "fixedaddrd Company% "ipv4add "mac": "fixedaddrd "name": "network }, {"_ref": "fixedaddrd ompany%2 "ipv4add "mac": " "ms_ser {"_struct "ipv4add "mac": " "name": "networl }, {"_ref": "fixedaddrd "name": "networl }, {"_ref": "fixedaddrd "mac": "("ms_ser {"_struct "ipv4add "mac": "("ms_ser {"_struct "ipv4add "name": "ipv4add "name":	ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC/6201", r": "192.168.4.3", l2:34:56:78:91:23", ver": t": "msdhcpserver", dr": "192.168.4.21"}, "test",view": "Company 1" ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC/201", r": "192.168.4.8", ca:fe:ca:fe:be:ef", ver": tt": "msdhcpserver", ddr": "192.168.4.21"}, "awo666", k_view": "Company 1" ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC/6201", r": "192.168.4.21"}, "awo666", k_view": "Company 1" ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC/6201", r": "192.168.4.85", 00:50:56:ba:01:ec",	C40LjguMC4xNy4:192.168.4.8/C	

Get information about an IP address

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

Get unused IP addresses in a subnet

	REST Method	API Call	
Operation	Sample cURL Command		
		Sample Output	
Query for unused IP addresses in a subnet	master/w ect=1" {"result": [{"_ref": "ip_add "is_cor "name: "netwo "object "status "types" "usage }, {"_ref": "ip_add "is_cor "mac_a "name: "name: "netwo "netwo "netwo "object	rk": "10.10.10.0/24", rk_view": "default", s": [], ": "UNUSED", : [], "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTgvMA:10.10.10.108", dress": "10.10.10.10.108", offlict": false, address": "", s": [], rk": "10.10.10.0/24", rk_view": "default", s": [], ": "UNUSED", : [],	

```
},
....
]}
```

Search for any object with an IP address

	REST Method	API Call		
Operation		Sample cURL Command		
		Sample Output		
	GET	<pre><wapi_url>/ipv4address?status=USED&ip_address=10.10.10.20</wapi_url></pre>		
		admin:infoblox -X GET "https://grid-		
	master/w =1"	api/v2.12/ipv4address?status=USED&ip_address=10.10.10.20&_return_as_object		
	{"result":			
	[{"_ref":	[{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20",		
	"ip_address": "10.10.10.20",			
	"is_conflict": false,			
Occupation at the state of the ID	"mac_address": "",			
Search for objects by IP address	"names": ["host1.info.com"],			
address	"network": "10.10.10.0/24", "network view": "default",			
	"objec	,		
	Objec			
	["record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/d efault"],			
	"status": "USED",			
	"types": ["HOST"],			
	"usage": ["DNS"]			
	}]}			

Search for an IP address

Operation	REST Method	API Call		
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/search?address=172.26.1.100</wapi_url>		
	curl -k -u	admin:infoblox -X GET "https://grid-		
	master/w	master/wapi/v2.12/search?address=172.26.1.100&_return_as_object=1"		
	{"result":	{"result":		
	[{"_ref":			
	record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4y			
	Ni4xLjEwMA:host.test.info.com/default",			
Search an IP address	"ipv4addr": "172.26.1.100",			
		"host.test.info.com",		
	"view": "	default"		
	},			
	{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjl2LjEuMC8yNC8w:172.26.1.0/24/default",			
	"network": "172.26.1.0/24",			
	"network_view": "default"			
	 }] }			

Delete an IP address

Operation	REST Method	API Call		
Operation		Sample cURL Command		
		Sample Output		
	DELETE	<wapi_url>/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10. 10.10.20</wapi_url>		
Delete an IP	master/wa	curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.1 0.20&_return_as_object=1"		
	{"result":"i	pv4address/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.

	REST Method	API Call	Sample Body		
Operation		Sample cURL Command			
		Sample Output			
	GET	<wapi_url>/view</wapi_url>			
	curl -k -u ac	<mark>lmin:infoblox -X GET "https://grid-master</mark> /wapi/v2.12/view?_r	eturn_as_object=1"		
	{"result":				
	[{"_ref": "vi	ew/ZG5zLnZpZXckLl9kZWZhdWx0:default/true",			
	"is_defau	· ·			
	"name": "	default"			
	},				
Get all DNS views	{"_ref": "view/ZG5zLnZpZXckLjE:default.test/false",				
	"is_default": false,				
	"name": "default.test"				
	}, [" rof": "viou/7CFzI n7n7Yold ilidofoult cloud/folco"				
	\[\text{\subset} \te				
	"name": "default.cloud"				
	GET	<wapi_url>/zone_auth?view=default.test</wapi_url>			
	curl -k -u ac	Imin:infoblox -X GET "https://grid-			
	master/wapi/v2.12/zone_auth?view=default.test&_return_as_object=1"				
	{"result":	•			
Get authoritative	[{"_ref": "zone_auth/ZG5zLnpvbmUkLjEuY29tLmluZm8:info.com/default.test",				
zones for a DNS view	"fqdn": "info.com",				
	"view": "default.test"				
	},				
	{"_ref": "zone_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test",				
	"fqdn": "test.org",				

```
"view": "default.test"
                       }]}
                                   <wapi_url>/record:host?zone=info.com&view=default.test
                       curl -k -u admin:infoblox -X GET "https://grid-
                       master/wapi/v2.12/record:host?zone=info.com&view=default.test& return as object=1"
                       {"result":
                        [{"_ref":
                       "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8uc2VydmVy:server.info.com/default.test",
                         "ipv4addrs":
                          [{"_ref":
                       record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5zZXJ2ZXIuMTAuMT
                       AuMC4xMDAu: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",
Get all records for a
                         "view": "default.test"
zone in a DNS view
                        {" ref":
                       "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",
                         "ipv4addrs":
                          [{"_ref":
                       record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS
                       4xLjEwMC4:10.1.1.100/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"
                                 <wapi url>/networkview
                       curl -k -u admin:infoblox -X GET "https://grid-
                       master/wapi/v2.12/networkview? return as object=1"
                       {"result":
                        [{" ref": "networkview/ZG5zLm5ldHdvcmtfdmlldvQw:default/true",
                          'is_default": true,
                         "name": "default"
Get all network views
                         {"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:test/false",
                          "is_default": false,
                          "name": "test"
                         {"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQy:cloud/false",
                          "is default": false.
                          "name": "cloud"
                                POST
                                                                                               {"name": "demo"}
                                                 <wapi url>/networkview
                       curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                       master/wapi/v2.12/networkview? return fields%2B=name& return as object=1" -d '{"name":
  Create a network
                       "demo"}'
        view
                       {"result":
                        {" ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:demo/false",
                         "is default": false.
```

	"name": "demo"		
	POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "infoblox.com", "view": "default.test"}
Create an authoritative zone within a network view	master/wapi/v2.12/zone '{"fqdn": "infoblox.com"," {"result":	-H 'content-type: application/json' -X POST "htt _auth?_return_fields%2B=fqdn,network_view&_ view": "default.test"}' 5zLnpvbmUkLjEuY29tLmluZm9ibG94:infoblox.o	return_as_object=1" -d
	POST	<wapi_url>/record:host</wapi_url>	{"name":"host.infoblox. com", "ipv4addrs": [{"ipv4addr":"10.10.10. 20"}], "view": "default.test"}
Create a host record within a network view	master/wapi/v2.12/record '{"name":"host.infoblox {"result":	com", 20" .com",	&_return_as_object=1" - "view": "default.test"}' oblox.com/default.test",
Add a network within a network view	master/wapi/v2.12/netwo	<pre><wapi_url>/network -H 'content-type: application/json' -X POST "htt ork?_return_fields%2B=network&_return_as_ob rk_view": "test"}'</wapi_url></pre>	
	{"result":	m5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMQ:192 0/24",	2.168.1.0/24/test",

VLAN Management

This is only supported with WAPI version 2.10 onwards

0	REST Method	API Call	Sample Body		
Operation		Sample cURL Command			
		Sample Output			
	GET curl -k -u a	<pre></pre> <pre><</pre>	 anview? return as object=1"		
Get VLAN View	{"result": [" rof": "vlapviow/7G5zLp7cVW5fdmlldvPk7W7bdWy0LiEuNDA5NA:dofault/1/4094"				
	POST	<wapi_url>/vlanview</wapi_url>	{"start_vlan_id": 10, "end_vlan_id": 20, "name": "test"}		
Add a VLAN	master/wa =1" -d '{"st	dmin:infoblox -H 'content-type: application/json' -X PO:pi/v2.12/vlanview?_return_fields%2B=start_vlan_id,endart_vlan_id": 10,"end_vlan_id": 20,"name": "test"}'			
view					
	POST	<wapi_url>/vlanrange</wapi_url>	{"start_vlan_id": 15, "end_vlan_id": 20, "name": "testrange", "vlan_view": "vlanview/ZG5zLnZsYW5fdmlldy R0ZXN0LjEwLjlw:test/10/20"}		
Add a VLAN range	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlanrange?_return_fields%2B=start_vlan_id,end_vlan_id,name&_return_as_cct=1" -d '{"start_vlan_id": 15,"end_vlan_id": 20, "name": "testrange","vlan_view": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20"}' {"result":				
Add a VLAN	POST	<wapi_url>/vlan</wapi_url>	{"id": 11, "name": "testvlan", "parent": "vlanview/ZG5zLnZsYW5fdmlldy R0ZXN0LjEwLjlw:test/10/20", "reserved":true, "contact":"879220", "department":"ng"}		

```
curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                 master/wapi/v2.12/vlan? return fields%2B=id,name& return as object=1" -d '{"id": 11,"name":
                 "testvlan", "parent":
                 "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","reserved":true,"contact":"879220","de
                 partment":"ng"}'
                 {"result":
                  { "_ref":
                 "vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTE:te
                 st/testvlan/11",
                   "id": 11,
                   "name": "testvlan".
                   "vlan_view": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}
                                                                                {"id":"func:nextavailablevlanid:vla
                                                                                nview/ZG5zLnZsYW5fdmlldyR0Z
                                                                                XN0LjEwLjIw:test/10/20",
                                                                                "name": "next-vlan",
                                                                                "parent":
                  POST
                            <wapi_url>/vlan
                                                                                "vlanview/ZG5zLnZsYW5fdmlldy
                                                                                R0ZXN0LjEwLjIw:test/10/20",
                                                                                "reserved":true,
                                                                                "contact": "879220",
                                                                                "department":"ng"}
Next available
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
    VLAN
                 master/wapi/v2.12/vlan?_return_fields%2B=id,name&_return_as_object=1" -d
                 '{"id":"func:nextavailablevlanid:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20","name":
                 "next-vlan","parent":
                 "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","reserved":true,"contact":"879220","de
                 partment":"ng"}'
                 {"_ref":
"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:te
                  "id": 10,
                  "name": "next-vlan",
                  "parent": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20"}}
                                                                                {"network_view":"default",
                                                                                 "network": "61.0.0.0/24",
                                                                                 "vlans":
                                                                                 [{"vlan":
                  POST
                            <wapi_url>/network
                                                                                "vlan/ZG5zLnZsYW4kLmNvbS5p
                                                                                bmZvYmxveC5kbnMudmxhbl92a
                                                                                WV3JHRIc3QuMTAuMjAuMTA:te
                                                                                st/next-vlan/10" }]}
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
  Create a
                 master/wapi/v2.12/network?_return_fields%2B=vlans&_return_as_object=1" -d
network with a
                 '{"network_view":"default","network":"61.0.0.0/24","vlans":
                 [{"vlan":"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMiA
    VLAN
                 uMTA:test/next-vlan/10" }]}'
                 {"result":
                  {"_ref": "network/ZG5zLm5ldHdvcmskNjEuMC4wLjAvMjQvMA:61.0.0.0/24/default",
                   'network": "61.0.0.0/24",
                  "network_view": "default",
                  "vlans":
                   [{"id": 10,
                    "name": "next-vlan",
                    "vlan":
```

	"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:te st/next-vlan/10" }]}}				
	POST	<wapi_url>/network</wapi_url>	{"network_view":"default",		
Create network	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=vlans&_return_as_object=1" -d '{"network_view":"default","network":"62.0.0.0/24","vlans": [{"vlan":"func:nextavailablevlan:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20" }]}'				
available VLAN	"network": "62.0.0.0/24", "network_view": "default", "vlans": [{"id": 11, "name": "testvlan", "vlan":				
"vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAst/testvlan/11" }]}}					

DHCP related scenarios

DHCP ranges

Onesetien	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/range</wapi_url>		
	curl -k -u a	admin:infoblox -X GET "https://grid-master/wapi/v2.12/ra	ange?_return_as_object=1"	
Get DHCP ranges	{"result":			
Add a DHCP range	POST	<wapi_url>/range</wapi_url>	{"start_addr": "10.10.10.20", "end_addr": "10.10.10.100", "server_association_type": "MEMBER", "member":{"_struct": "dhcpmember", "ipv4addr": "172.26.1.3"}}	
			ST "https://grid-	

```
'{"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/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMjAvMTAuMTAuMTAuMTAwLy8vMC8:10.10.1
                 0.20/10.10.10.100/default",
                    "end_addr": "10.10.10.10.0",
                   "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"
                                                                                  {"start_addr": "172.26.1.20",
                   POST
                             <wapi url>/range
                                                                                  "end_addr": "172.26.1.100"}
                 curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-
                 master/wapi/v2.12/range? return fields%2B=start addr,end addr,member& return as object=1" -d
                 '{"start_addr": "172.26.1.20", "end_addr": "172.26.1.100"}'
                 {"result":
 Add a DHCP
                   {"_ref":
range reserved
                  "range/ZG5zLmRoY3BfcmFuZ2UkMTcyLjl2LjEuMjAvMTcyLjl2LjEuMTAwLy8vMC8:172.26.1.20/172.
    range
                  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

Onevetion	REST Method	API Call			
Operation		Sample cURL Command			
		Sample Output			
	GET	<pre><wapi_url>/range?_return_fields%2B=extattrs&*Country:=France</wapi_url></pre>			
	curl -k -u	admin:infoblox -X GET "https://grid-			
	master/wa	api/v2.12/range?_return_fields%2B=extattrs&*Location:=Bangalore&_return_as_object=1			
	=				
	{"result":				
Search ranges by	[{"_ref":				
EA (ranges in	"range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMTUwLzEwLjEwLjEwLjIwMC8vLzEv:10.10.10				
Bangalore)		0.10.200/test",			
2 41.194.10.0)	_	ddr": "10.10.10.200",			
		s": {"Location": {"value": "Bangalore"}},			
	"networ	k": "10.10.10.0/24",			
	"network_view": "test",				
	"start_addr": "10.10.10.150"				
<u> </u>					

DHCP Leases

	REST	API Call			
Operation	Method	Sample cURL Command			
		Sample Cort Command Sample Output			
	GET	<wapi_url>/lease</wapi_url>			
	curl -k -u	admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?_return_as_object=1"			
Get DHCP leases	"addres	"lease/ZG5zLmxlYXNIJDAvMTAuMTAuMC4yMDAvMC8:10.10.10.200/test", ss": "10.10.10.200", rk_view": "test"			
	"addres	lease/ZG5zLmxIYXNIJDAvMTAuMTAuMC4xOTUvMC8:192.168.1.100/default", s": "192.168.1.100", k_view": "default"			
	"addres	lease/ZG5zLmxIYXNIJDAvMTAuMTAuMC4xOTEvMC8:10.10.10.191/default", s": "10.10.10.191", k_view": "default"			
	GET	<pre><wapi_url>/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_ hostname,fingerprint&_max_results=1</wapi_url></pre>			
Get DHCP lease	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_hostname,fingerprint&_max_results=1&_return_as_object=1"				
by IP Address	"binding "fingerp "hardwa	"lease/ZG5zLmxIYXNIJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1", g_state": "ACTIVE", rint": "Cisco/Linksys SPA series IP Phone", are": "16:55:a4:1b:98:c9"			
	}]} GET	<pre><wapi_url>/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_st ate,hardware,client_hostname,fingerprint</wapi_url></pre>			
Get a DHCP	master/wa hardware	admin:infoblox -X GET "https://grid- api/v2.12/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_state, ,client_hostname,fingerprint&_return_as_object=1"			
lease by hostname	"binding "client_l	"lease/ZG5zLmxlYXNIJC8xOTluMTY4LjQuMy8wLzE3:192.168.4.3/Company%201", j_state": "STATIC", hostname": "test",			
		are": "12:34:56:78:91:23"			
	}]} GET	<pre><wapi_url>/lease?network=172.26.1.0/24&_return_fields=binding_state,hardware,client</wapi_url></pre>			
Get DHCP leases by network	hostname,fingerprint,network curl -k -u admin:infoblox -X GET "https://grid- master/wapi/v2.12/lease?network=172.26.1.0/24&_return_fields=binding_state,hardware,client_ho stname,fingerprint,network&_return_as_object=1"				
	"binding "fingerp "hardwa	"lease/ZG5zLmxlYXNIJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1", g_state": "ACTIVE", rint": "Cisco/Linksys SPA series IP Phone", arriv: "16:55:a4:1b:98:c9",			
	"networ },	k": "172.26.1.0/24"			

```
{"_ref": "lease/ZG5zLmxlYXNIJC8xOTluMTY4LjQuMy8wLzE3:172.26.1.3/Company%201",
    "binding_state": "STATIC",
    "client_hostname": "test",
    "hardware": "12:34:56:78:91:23",
    "network": "172.26.1.0/24"
}]}
```

Grid management related scenarios

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

Operation	REST Method	API Call	
Operation	eration Sample cURL Command		
		Sample Output	
	GET	<wapi_url>/grid</wapi_url>	
Grid reference	curl -k -u	admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid"	
Gila reference	{"result":	{"result":	
	[{"_ref":	"grid/b25ILmNsdXN0ZXIkMA:Infoblox"}]}	

Grid Settings

9 11	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	PUT	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:In foblox?_return_fields%2B=snmp_setting</wapi_url>	{"snmp_setting": {"queries_community_string": "public", "queries_enable": true, "trap_receivers": [{"address": "1.1.1.1"}], "traps_community_string": "public", "traps_enable": true }}	
Configure SNMP			ommunity_string": ess": ble": true}}'	

```
{"ntp_setting":
                                                                                        {"enable_ntp": true,
                                         <wapi_url>/grid/b25lLmNsdXN0ZXlkMA:In
                               PUT
                                                                                         "ntp_servers":
                                         foblox? return fields%2B=ntp setting
                                                                                         [{"address":"10.224.0.10"}]
                            curl -k -u admin:infoblox -X GET "https://grid-
                            master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_return_fields%2B=ntp_setting&
                             return as object=1" -d '{"ntp setting": {"enable ntp": true, "ntp servers":
                            [{"address":"10.224.0.10"}]}}'
                            {"result":
                              {"_ref": "grid/b25lLmNsdXN0ZXlkMA:Infoblox",
                               "ntp_setting":
                                  {"enable_ntp": true,
     Configure NTP
                                   "ntp acl":
                                      {"ac_list": [],
                                       'acl_type": "NONE",
                                       "service": "TIME"},
                                   "ntp_keys": [],
                                   "ntp_kod": false,
                                   "ntp_servers":
                                     [{"address": "10.224.0.10",
                                       "burst": true,
                                       "enable_authentication": false,
                                       "iburst": true.
                                       "preferred": false}]}
                                          <wapi_url>/grid/b25lLmNsdXN0ZXlkMA:In
                                                                                       {"dns_resolver_setting":
                               PUT
                                         foblox? return fields%2B=dns resolver s
                                                                                       {"resolvers":["192.168.8.52"]}
                                         etting
                            curl -k -u admin:infoblox -X GET "https://grid-
                            master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_return_fields%2B=dns_resolver
                              setting& return as object=1" -d '{"dns resolver setting": {"resolvers":["192.168.8.52"]}}'
Configure DNS Resolver
                            {"result":
        Setting
                              {"_ref": "grid/b25lLmNsdXN0ZXlkMA:Infoblox",
                                "dns_resolver_setting":
                                {"resolvers": ["192.168.8.52"],
                                 'search domains": []
                                }
```

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.

On and the	REST Method	API Call	Sample Body
Operation		Sample cURL Comman	d
		Sample Output	
	GET	<pre><wapi_url>/grid:dns?_return_fields%2B= max_cached_lifetime</wapi_url></pre>	
Get grid DNS properties		dmin:infoblox -X GET "https://grid- pi/v2.12/grid:dns?_return_fields%2B=max_cad	ched_lifetime&_return_as_object
		rid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3Bloched_lifetime": 86400	cnRpZXMkMA:Infoblox",
	PUT	<pre><wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJf ZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_r eturn_fields%2B=max_cached_lifetime dmin:infoblox -H 'content-type: application/json</wapi_url></pre>	{"max_cached_lifetime":60000} n' -X PUT "https://grid-
Modify grid DNS properties (max_cached_lifetime) at the Grid level	master/wap _return_fiel '{"max_cac	oi/v2.12/ <mark>grid:dns/ZG5zLmNsdXN0ZXJfZG5zX</mark> ds%2B=max_cached_lifetime&_return_as_ot hed_lifetime":60000}'	3Byb3BlcnRpZXMkMA:Infoblox?
		rid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3Blc ched_lifetime": 60000	nRpZXMkMA:Infoblox",
	GET	<pre><wapi_url>/member:dns?_return_fields%2 B=max_cached_lifetime</wapi_url></pre>	
	master/wap bject=1"	dmin:infoblox -X GET "https:// <mark>grid-</mark> pi/v2.12/member:dns?_return_fields%2B=max	c_cached_lifetime&_return_as_o
Get member DNS properties	"host_nar "ipv4addr" "max_cac	ns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyC ne": "infoblox.localdomain", ': "172.26.1.2", hed_lifetime": 86400	w:infoblox.localdomain",
	"host_nar "ipv4addr	ns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyC me": "member1.localdomain", ": "172.26.1.3", ched_lifetime": 86400	0x:member1.localdomain",
Modify DNS properties (max_cached_lifetime) at the member level	PUT	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl 9kbnNfcHJvcGVydGllcyQx:member1.local domain?_return_fields%2B=max_cached_ lifetime</wapi_url></pre>	{"use_max_cached_lifetime": true, "max_cached_lifetime":80000}
	master/wap aldomain?_	dmin:infoblox -H 'content-type: application/jso pi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNf return_fields%2B=max_cached_lifetime&_re _cached_lifetime": true,"max_cached_lifetime	cHJvcGVydGllcyQx:member1.loc turn_as_object=1" -d
	{"result": [{"_ref":		

	"member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain", "host_name": "member1.localdomain", "ipv4addr": "172.26.1.3", "max_cached_lifetime": 80000 }]}		
	PUT	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl 9kbnNfcHJvcGVydGllcyQw:infoblox.locald omain?_return_fields%2B=additional_ip_li st</wapi_url></pre>	{"additional_ip_list": ["32.32.32.32"]}
Update DNS properties with additional IP list			

Members

Omenation	REST Method	API Call	Sample Body
Operation		Sample cURL Command	t
		Sample Output	
Get members	GET <wapi_url>/member curl -k -u admin:infoblox -X GET "https://grid- master/wapi/v2.12/member?_return_as_object=1" {"result": [{"ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",</wapi_url>		
Get details of a member based on its name	"service_type_configuration": "ALL_V4" }]} GET		
Get details of a member based on its IPv4 address	GET	<pre><wapi_url>/member?ipv4_address=172.26. 1.2</wapi_url></pre>	

```
curl -k -u admin:infoblox -X GET "https://grid-
                             master/wapi/v2.12/member?ipv4 address=172.26.1.2& return fields%2B=vip setting& r
                             eturn_as_object=1"
                             {"result":
                              [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",
                                config_addr_type": "IPV4",
                               "host_name": "infoblox.localdomain",
                               "platform": "VNIOS",
                               "service_type_configuration": "ALL_V4",
                               "vip_setting":
                                 {"address": "172.26.1.2",
                                 "dscp": 0,
                                 "gateway": "172.26.1.1",
                                 "primary": true,
                                 "subnet_mask": "255.255.255.0",
                                 "use_dscp": false
                             }}]}
                                         <wapi_url>/member?_return_fields%2B=no
                               GET
                                        de info
                             curl -k -u admin:infoblox -X GET "https://grid-
                             master/wapi/v2.12/member? return fields%2B=node info& return as object=1"
                              [{"_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"},
Get node information for all
                                   "lan_port_setting": {"auto_port_setting_enabled": true}
        members
                                  "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
                                  }}],
                                         <wapi_url>/member?_return_fields%2B=se
                               GET
                                        rvice status
                             curl -k -u admin:infoblox -X GET "https://grid-
                             master/wapi/v2.12/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",
Get Service Status for all
                                 "status": "WORKING"
       members
                                {"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"			
	},			
	13			
	11/	<wapi_url>/member/b25lLnZpcnR1YWxfb</wapi_url>		
	PUT	m9kZSQw:infoblox.localdomain	{"host_name":"nios.test.com"}	
		dmin:infoblox -H 'content-type: application/jsor		
	master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_return _fields%2B=host_name&_return_as_object=1" -d '{"host_name":"nios.test.com"}'			
Madify the person of a		s=nost_name&_return_as_object=1" -d {"nost_	_name":"nios.test.com"}	
Modify the name of a	{"result":			
member		nember/b25lLnZpcnR1YWxfbm9kZSQw:nios.te	est.com,	
		addr_type": "IPV4", .me": "nios.test.com",		
		r: "VNIOS",		
		type_configuration": "ALL_V4"		
	Service_	type_configuration . ALL_v4		
	111		{"static routes":	
			{ static_routes : [{"address":"10.10.10.0",	
	PUT	<wapi_url>/member/b25lLnZpcnR1YWxfb</wapi_url>	gateway":"172.26.1.1",	
	101	m9kZSQw:infoblox.localdomain	"subnet_mask":	
			"255.255.255.0"}]}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-			
	master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_return			
	_fields%2B=static_routes&_return_as_object=1" -d '{ "static_routes":[{"address": "10.10.10.0", "gateway": "172.26.1.1", "subnet_mask": "255.255.255.0"}]}'			
Add static routes to a	{"result":			
member	•	ember/b25lLnZpcnR1YWxfbm9kZSQw:infoblo	v localdomain"	
member	"config_addr_type": "IPV4",			
	"host_name": "infoblox.localdomain",			
	"platform": "VNIOS",			
	"service_type_configuration": "ALL_V4",			
	"static_routes":			
	[{"address": "10.10.10.0",			
	"gateway": "172.26.1.1",			
	}]}}			
		<wapi_url>/member/b25lLnZpcnR1YWxfb</wapi_url>	("ototio routes": [])	
	PUT	m9kZSQw:infoblox.localdomain	{"static_routes": []}	
		dmin:infoblox -H 'content-type: application/jsor		
		pi/v2.12/member/b25lLnZpcnR1YWxfbm9kZS0		
		B=static_routes&_return_as_object=1" -d '{ "sta	atic_routes":[]}'	
Delete static routes from a	{"result":			
member	{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",			
monibei		ddr_type": "IPV4",		
	"host_name": "infoblox.localdomain",			
		': "VNIOS",		
		type_configuration": "ALL_V4",		
	"static_ro	utes": []		
	}}			
Enable DNS Service on a	D: 17	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl9</wapi_url></pre>	(llegelije de llegelije	
member	PUT	kbnNfcHJvcGVydGllcyQw:member1.locald	{"enable_dns":true}	
		omain		

		dmin:infoblox -H 'content-type: application/jsor pi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfo		
	caldomain?_return_as_object=1" -d '{"enable_dns":true}'			
	{"result": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:member1.localdomain"}			
	PUT	<pre><wapi_url>/member:dhcpproperties/ZG5zL m1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ :member1.localdomain</wapi_url></pre>	{"enable_dhcp":true}	
Enable DHCP Service on a member	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXM kMQ:member1.localdomain?_return_as_object=1" -d '{"enable_dhcp":true}' {"result":			
	"member:o	lhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byk	o3BlcnRpZXMkMQ:member1.loc	
Add a member to the grid	POST	<wapi_url>/member</wapi_url>	{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"autojoin01.locald omain", "vip_setting": {"subnet_mask": "255.255.255. 0", "address": "192.128.2.7", "gateway":"192.128.2.1"}}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"autojoin01.localdomain"," vip_setting": {"subnet_mask": "255.255.255.0","address": "192.128.2.7","gateway":"192.128.2.1"}}' {"result": "member/b25lLnZpcnR1YWxfbm9kZSQx:autojoin01.localdomain"}			
Add a HA member to the grid	POST	<wapi_url>/member</wapi_url>	{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"member- ha.localdomain", "enable_ha":true, "router_id":150, "vip_setting": {"subnet_mask": "255.255.255.0", "address": "192.128.2.100", "gateway":"192.128.2.1"}, "node_info": [{"lan_ha_port_setting": {"ha_ip_address":"192.128.2.80"}}, {"lan_ha_port_setting": {"ha_ip_address":"192.128.2.7 0", "mgmt_lan":"192.128.2.80"}}, {"lan_ha_port_setting": {"ha_ip_address":"192.128.2.7 1", "mgmt_lan":"192.128.2.81"}}}	
	"mgmt_lan":"192.128.2.81"}}} curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"member-ha.localdomain","enable_ha":true,"router_id":150,"vip_setting": {"subnet_mask": "255.255.255.0","address": "192.128.2.100","gateway":"192.128.2.1"},"node_info":[{"lan_ha_port_setting":{"ha_ip_ad			

		2.128.2.70","mgmt_lan":"192.128.2.80"}},{"lar 8.2.71","mgmt_lan":"192.128.2.81"}}]}'	n_ha_port_setting":{"ha_ip_addres
	{"result": "i	member/b25LnW9vjR1ZUxfbm9aUlsx:membe	er-ha localdomain"}
Add a member with anycast configuration	POST	<wapi_url>/member</wapi_url>	{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name": "member- anycast.localdomain", "vip_setting": {"subnet_mask": "255.255.255.0", "address": "192.128.2.100", "gateway": "192.128.2.1"}, "additional_ip_list": [{"anycast":true, "enable_bgp":true, "enable_ospf":true, "interface": "LOOPBACK", "ipv4_network_setting": {"subnet_mask": "255.255.255.255", "address": "192.128.2.10", "gateway": "192.128.2.1"}}], "bgp_as": [{"as":100, "link_detect":true, "neighbors": [{"authentication_mode": "NON E", "interface": "LAN_HA", "neighbor_ip": "192.168.2.102", "remote_as":102, "enable_bfd":true}]]}, "ospf_list": [{"area_id": "100", "authentication_type": "NONE", "auto_calc_cost_enabled":true, "interface": "LAN_HA", "si_ipv4":true}]}
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member?_return_as_object=1" -d '{"config_addr_type": "IPV4","platform": "VNIOS","host_name":"member-anycast.localdomain","vip_se {"subnet_mask": "255.255.255.0","address": "192.128.2.100","gateway":"192.128.2.1"},"additional_ip_list":[{"anycast":true,"enap":true,"enable_ospf":true,"interface":"LOOPBACK","ipv4_network_setting":{"subk": "255.255.255.255","address": "192.128.2.10","gateway":"192.128.2.1"}}],"bgp_as":[{"as":100,"link_detect":true,"s":[{"authentication_mode":"NONE","interface":"LAN_HA","neighbor_ip":"192.168		config_addr_type": cast.localdomain","vip_setting": _list":[{"anycast":true,"enable_bg 4_network_setting":{"subnet_mas s":100,"link_detect":true,"neighbor
	remote_as	ntication_mode : NONE ; Interface : LAN_n/ ;":102,"enable_bfd":true}]}],"ospf_list":[{"area_ o_calc_cost_enabled":true,"interface":"LAN_h member/b25lLnZpcnR1YWxfbm9kZSQz:mem	id":"100","authentication_type":"N HA","is_ipv4":true}]}' lber-anycast.localdomain"}
Initiate member join	POST	<member_wapi_url>/grid?_function=join</member_wapi_url>	{"grid_name":"Infoblox", "master":" <grid address="" ip="" master="">", "shared_secret":"test"}</grid>

curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://member-
master/wapi/v2.12/grid?_function=join&_return_as_object=1" -d '{"grid_name":"Infoblox",
"master":"grid-master", "shared_secret":"test"}'

Clear DNS Cache

	REST Method	API Call		
Operation	Sample cURL Command			
	Sample Output			
	GET	<wapi_url>/member:dns</wapi_url>		
		dmin:infoblox -X GET "https://grid-		
		oi/v2.12/member:dns?_return_as_object=1"		
	{"result":			
	[{"_ref":	7707 1 48 344 8 101 4 14 1 101 101 101 101 101 101 101		
		ns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain",		
		me": "infoblox.localdomain", r": "10.196.205.12"},		
		1. 10.190.203.12 },		
		ns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_member1.localdomai		
	n",			
Get member DNS		me": "infoblox_member1.localdomain",		
reference		r": "10.196.205.13"},		
reference		nember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQ2:infoblox-		
		localdomain",		
		me": "infoblox-cpmember.localdomain",		
		r": "10.196.205.14"},		
	{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQ4:testingwapi.localdomain",			
	"host_name": "testingwapi.localdomain",			
	"ipv4addr": "192.128.2.7"},			
	{"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQxMA:nios.test.com",			
	"host_name": "nios.test.com",			
		r": "10.196.205.100"		
	}]}			
	POST	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblo x_member1.localdomain?_function=clear_dns_cache</wapi_url></pre>		
Clear DNS cache of a	curl -k -u oc	dmin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
member	master/war	bi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_me		
member	mber1.localdomain?_function=clear_dns_cache"			
	{}			
		<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblo</wapi_url>		
	POST	x_member1.localdomain?_function=clear_dns_cache&view=Internal%20DN		
Clear DNS cache of a		S		
member for a specific DNS	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-			
view	master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox			
	mber1.localdomain?_function=clear_dns_cache&view=Internal%20DNS" {}			
	V	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblo</wapi_url>		
	POST	x_member1.localdomain?_function=clear_dns_cache&domain=test.com&cle		
Clear DNS cache of a		ar_full_tree=true		
member for a specific	curl -k -u ac	dmin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
FQDN and all the records within it	master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_me			
WILLIEF IL	mber1.loca	Idomain?_function=clear_dns_cache&domain=test.com&clear_full_tree=true		
	{}			

Services

Operation	REST Method	API Call	Sample Body	
	Sample cURL Command			
	POST	<pre><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox? _function=requestrestartservicestatus</wapi_url></pre>	{"service_option": "ALL"}	
Get grid service status	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function=requestresta cestatus" -d '{"service_option": "ALL"}'			
Restart the services	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox? _function=restartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grimaster/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function= restartser' \{"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"}			
Restart the services when no restart action is required	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox? _function=restartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "restart_option":"FOR CE_RESTART", "service_option": "ALL"}	
·	master/w '{"membe	admin:infoblox -H 'content-type: application/json' -X Fapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_funcer_order": ANEOUSLY","restart_option":"FORCE_RESTART",";	ction= restartservices" -d	
Get the pending changes	GET	<pre><wapi_url>/grid:servicerestart:request:changedob ject</wapi_url></pre>		
Oct the pending changes		admin:infoblox -X GET "https://grid- api/v2.12/grid:servicerestart:request:changedobject"		

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

Discovery

Operation	REST Method	API Call	Sample Body		
Operation		Sample cURL Com	mand		
	Sample Output				
	GET	<wapi_url>/discoverytask</wapi_url>			
	curl -k -u	admin:infoblox -X GET "https://grid-			
	master/w	api/v2.12/discoverytask?_return_as_object	ct=1"		
	{"result":				
	[{"_ref": '	discoverytask/ZG5zLmRpc2NvdmVyeV9	OYXNrJGN1cnJlbnQ:current",		
Get the pre-built discovery	"discov	"discovery_task_oid": "current", "member_name": "infoblox.localdomain"},			
tasks on the grid	"memb				
	{"_ref":				
	"discover	ytask/ZG5zLmRpc2NvdmVyeV90YXNrJH	NjaGVkdWxlZA:scheduled",		
	"discov	very_task_oid": "scheduled",			
	"memb	per_name": "infoblox.localdomain"			
		<wapi_url>/discoverytask/ZG5zLmRpc</wapi_url>	'{"mode":"ICMP",		
Modify the scheduled	PUT	2NvdmVyeV90YXNrJHNjaGVkdWxlZA	"network_view":"default",		
discovery task	1 01	:scheduled	"networks":		
		.surieuuleu	["network/ZG5zLm5ldHdvcmskMT		

kyl_E2QC4xMS4w12l0LzA:192.1 68.11.0/24/default*,				
"network/ZG5zLm5ldHdvcmskMT cyLjAuMC4wLz[0Lz4.172.0.0.0/2 4/default", "network/ZG5zLm5ldHdvcmskMT AuMTAwIAwMjQvMA:10.1 0.100.0/24/default"], ping_retries: 15. ping_limeout*: 1500, "scheduled_run"; {"frequency*: "DAILY", "hou_of_day*: 6. "minutes_past_hour*: 0, "repeat*: "RECUR"]} curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT 'https://grid-master/wapiv/2.12/discoverytask/ZG5zLmRpc2Nvdm/yev90YXNrJHNjaCVkdWxIZA scheduled* -d 'q 'mode*: "ICMP*, network, wiew*: "default*, "networks*: ["network/ZG5zLm5ldHdvcmskMTpyLjE2OC4xMS4wLzl0LzA:192.168.11.0/24/default*]				kyLjE2OC4xMS4wLzI0LzA:192.1
### Court				
Addefault* "network/ZGSzLmSidHdvcmskMT AuMTAuMTAwIJAvMjQvMA:10.1 0.100.0/24/default*], "ping_imeout*: 1500, "scheduled_run" "[frequency*: "DAILY*, "hour_of_day*: 6, "minutes_past_hour*: 0, "scheduled_run" "repeat*: "RECUR" "] "repeat*: "RECUR" "] "repeat*: "RECUR" "] "repeat*: "RECUR" "] " "repeat*: "RECUR" "] " "repeat*: "RECUR" "] " "repeat*: "RECUR" "] " "retwork/ZGSzLmSidHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0/24/default* "network/ZGSzLmSidHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0/24/default* "network/ZGSzLmSidHdvcmskMTAuMTAwIJAvMjQvMA:10.10.100.0/24/default* "network/ZGSzLmSidHdvcmskMTAuMTAwIJAvMjQvMA:10.10.100.0/24/default* "network/ZGSzLmSidHdvcmskMTAuMTAwIJAvMjQvMA:10.10.10.0/24/default* "" "network/ZGSzLmSidHdvcmskMTAuMTAwIJAvMjQvMA:10.10.10.0/24/default* "" "network/ZGSzLmSidHdvcmskMTAwIJAvMjQvMA:10.10.10.0/24/default* "" "network/ZGSzLmSidHdvcmskMTAwIJAvMjQvMA:10.10.10.0/24/default* "network/ZGSzLmSidHdvcmskMTAwIJAvMjQvMA:10.10.10.0/24/default* "network/ZGSzLmSidHdvcmskMTAwJJAvMjQvMA:10.10.10.0/24/default* "network/ZGSzLmSpCSzLmSpCSzLmSpCSzLmSpCDC-wdmVyev90YXNJGM1cnJbnQ:current" Solon** "network/ZGSzLmSpCSzLmSpCSzLmSpCD-wdmVyev90YXNJGM1cnJbnQ:current" "network/ZGSzLmSpCSzLmSpCSzLmSpCSzLmSpCSzLmSpCSzLmSpCSzLmSpCSyCSzLmSpCSSzLmSpCSSzLmSpCSSzL				
"network/ZGSzLmSidHdvcmskMT AuMTAuMTAwJAwMjQvMA:10.1 0.100.0/24/default"], "ping_retries": 5, "ping_timeout": 1500, "scheduled_run": "{frequency": "DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR"}} curl -k -u admin:infoblox -H 'content-type: application/json' -x PUT 'https://grid-master/wapiw2.12/discoverytask/ZGSzLmRpc2NvdmvyeV90YXNLPHNjaGVkdWxIZA: scheduled" -d '("mode": "ICMP"): network view": "default", "networks"; ["network/ZGSzLmSidHdvcmskMTQLjaUMCAwLz010_zA:172.0.0.0/24/default"]. "ping_retries": 5, "ping_timeout": 1500, "scheduled_run": "("requency": "DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR")} discoverytask/ZGSzLmRpc2NvdmVyeV90YXNL/JNNjaGVkdWxIZA: scheduled Wapi_urls-/discoverytask/ZGSzLmRpc PUT Modify the current discovery task wapi_urls-/discoverytask/ZGSzLmRpc PUT Curl -k -u admin:infoblox -H 'content-type: application/json' -x PUT "https://grid-master/wapiw2.12/discoverytask/ZGSzLmRpc2NvdmVyeV90YXNL/JNHQL2A:172.0.0.0/24/default", "network/ZGSzLmSidHdvcmskMT AuMTAuMTAwLjAvMjQvMA:10.1 0.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTAyJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmSidHdvcmskMTavJTavMTAwLjAvMjQvMA:10.1 0.10.00.24/default", "network/ZGSzLmS				
AudMTAuMIAwLjAVM]QvMA:10.1 0.100.0/24/default", "ping_retries": 5. "ping_timeout": 1500, "scheduled_run": ("frequency": DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR")} curl -k -u admin:infoblox -H 'content-type: application/json' -x PUT "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyv9/9YXNr,IHNjaGVkdWxlZA: scheduled" -d' ("mode":"CMP", "network view"; "default", "networks": ["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default", "network/ZG5zLm5ldHdvcmskMTxuMTAuMTAuMTAwLjAVM]QvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAuMTAwLjAVM]QvMA:10.10.100.0/24/default", "ping_reties": 5; "ping_timeout": 1500, "scheduled_run"; "frequency: "DAILY", "hour_of_day": 6; "minutes_past_hour": 0, "repeat: "RECUR"); discoverytask/ZG5zLmSldHdvcmskMTAuMTAuMTAwLjAVM]QvMA:10.10.00.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.00.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAVMQvMA:10.10.100.0/24/default",				
0.100.0/24/default*, "ping_retires*: 5, "ping_timeout*: 1500, "scheduled_run", "ping_retires*: 5, "ping_timeout*: 1500, "scheduled_run", "Ping_retires*: 5, "ping_timeout*: 1500, "scheduled_run", "Ping_retires*: 5, "minutes_past_hour*: 0, "repeat*: "RECUR" "}				
"ping_trevies"; 5, "ping_trevies"; 550, "scheduled_run"; ("frequency": "DAILY", "hour_of_day"; 6, "minutes_past_hour"; 0, "repeat"; "RECUR";)}} curl -k -u admin:infoblox -H 'content-type: application/json -k PUT 'https://gridmaster/wapi/v2,12/discoverytask/ZG5zLmRpc2NvdmVyv990YXNrJHNjaGVkdWxlZA: scheduled" -d ("mode":"CMP", "network view":"default", "networks"; ["network/ZG5zLm5ldHdvcmskMTxyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default", "network/ZG5zLm5ldHdvcmskMTxuMTAwMTAwMJAWM]QvMA-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAwMTAwMJAWM]QvMA-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAuMTAwMTAwMJAWM]QvMA-10.10.100.0/24/default", ping_reties; 5, "ping_timeout": 1500, "scheduled_run"; "frequency: "DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR")} discoverytask/ZG5zLmSldHdvcmskMTAwMTAwMTAwMJAWM, "network/ZG5zLm5ldHdvcmskMT cytlavMC4wtzl0tzA:192.168.11.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMTAwMZ+Q5zLm5ldHdvcmskMTawMTAwMTAwMTAwMZ+Q5zLm5ldHdvcmskMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10.10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMQAwdMz-10.100.0/24/default", "network/ZG5zLm5ldHdvcmskMTAwMTAwMTAwMTAwMQAwd-10				
"ping_timeout": 1500,				
Modify the current discovery task Modify the curre				
Curl -k-u admin:infoblox -H 'content-type: application/json' x PUT "hisps://grid-master/wapi/v2.12/discoverytask/Z65zLmRpc2Nvdm/yev90YXNrJ.HNjaGVkdWxlZA:scheduled" -d '("mode":1CMP", "network view":"default", "networks": ["network/Z65zLm5ldHdvcmskMTAuMTAwJLAWJCAWJCAL-132.168.11.0/24/default", "network/Z65zLm5ldHdvcmskMTAuMTAwJAWMJCAWM-10.10.100.0/24/default", "ping_re tries": 5, "ping_timeout": 1500, "scheduled run": ("frequency": "DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR"));				
"inour_of_day": 6, "inour_of_day": 6, "inour_of_day": 6, "inour_of_day": 6, "inour_of_day": 0, "repeat": "RECUR" "]}} curl - k - u admin:infoblox - H 'content-type: application/json' - X PUT "https://grid-master/wapiv/2.12/discoverytask/Z652LmRpc2Nvdm/yev90YXNrJHNjagGVkdWxlZA: scheduled" - d' "mode": "ICMP"; relevork x, view." 'defautt", "networks": ["network/Z652Lm5idHdvcmskMTAuMTAwMTAwMTAwM_L20LzA:192.168.11.0/24/default", "network/ Z652Lm5idHdvcmskMTAuMTAwMTAwM_L4AwMjQvMA:10.10.100.0/24/default", "network/ Z652Lm5idHdvcmskMTAuMTAwMTAwM_L4AwMjQvMA:10.10.100.0/24/default", "ping_ retwork/ 2, ping_ timeout": 0, "repeat": "RECUR")} discoverytask/Z652LmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled				
"minutes_past_hour"; 0, "repeat": "RECUR"				
Curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapiv/2.12/discoverytask/Z65zLmRpc2NvdmVyeV90YXNrJRN1collard:" (Imp. "network." jr. "network." (imp. "imp.				
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	lask			
nt?_function=network_discovery_control" -d '{"action":"START"}'				
		nt?_func	tion=network_discovery_control" -d '{"action	on":"START"}'

	GET <pre></pre>			
	curl -k -u admin:infoblox -X GET "https://grid-			
	master/wapi/v2.12/discoverytask?_return_as_object=1&_return_fields%2B=status,stat			
	e"			
	{"result":			
	[{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current",			
	"discovery_task_oid": "current",			
	"member_name": "infoblox.localdomain",			
	"state": "COMPLETE",			
Fetch the discovery task to get	·			
	"status": "Current status: Ended\nDiscovery was started by administrator 'admin'\n\n			
the state	Discovered: 8\n Pending processing: 0\n Managed: 0\n Unmanaged: 8\n Conflicts:			
	0\n\n Existing objects updated with discovery data: 0"},			
	{"_ref":			
	"discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled",			
	"discovery_task_oid": "scheduled",			
	"member_name": "infoblox.localdomain",			
	"state": "COMPLETE",			
	"status": "Current status: Ended\n\n Discovered: 0\n Pending processing: 0\n			
	Managed: 0\n Unmanaged: 0\n Conflicts: 0\n\n Existing objects updated with			
	discovery data: 0"			
]]}			

vDiscovery

On another	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
Get vDiscovery tasks	master/wa {"result": [{"_ref": "vdiscove 20vDiscove "name": "state": }, {"_ref": "vdiscove 0vDiscove "name": "state": }, {"_ref": "vdiscove Mware%2 "name": "state": }, {"_ref": "vdiscove Q:Openst "name":	"Azure vDiscovery", "WARNING" rytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRI	BenVyZSB2RGIzY292ZXJ5:Azure% BV1MgdkRpc2NvdmVyeQ:AWS%2 WTXdhcmUgdkRpc2NvdmVyeQ:V		

	1		'{"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_tena		
			nt": true,		
			"auto_consolidate_managed_vm":		
	POST	<wapi_url>/vdiscoverytask</wapi_url>	true,		
		, –	"merge_data": true,		
			"private_network_view": "default",		
			"private_network_view_mapping_		
			policy": "DIRECT",		
			"public_network_view": "default", "public_network_view_mapping_p		
			olicy": "DIRECT",		
Create a vDiscovery Task to			"update_metadata": true,		
discover the AWS			"scheduled_run":		
environment			{"_struct":"setting:schedule",		
			"frequency": "HOURLY",		
			"repeat": "RECUR",		
			"minutes_past_hour": 1, "disable": true}}'		
	curl -k -u	admin:infoblox -H 'content-type: applicati			
	master/wapi/v2.12/vdiscoverytask?_return_fields=name,driver_type&_return_as_objec				
	t=1" -d '{"name": "ec2.eu-west-1", "driver_type": "AWS", "fqdn_or_ip": "ec2.eu-west-				
		naws.com", "username": "test", "password			
		localdomain", "port": 443, "protocol": "HT			
		to_consolidate_managed_tenant": true, "a erge_data": true, "private_network_view": '			
		network_view_mapping_policy": "DIRECT			
		network_view_mapping_policy": "DIRECT			
		ed_run": {"_struct":"setting:schedule","fred			
	"RECUR", "minutes_past_hour": 1, "disable": true}}'				
	{"result":				
	{"_ref":		11/-17/1 14/01/- 400		
	1",	erytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayR	IYZIUZXUtd2VZdC0x:ec2.eu-west-		
		_type": "AWS",			
		: "ec2.eu-west-1"			
	}}				
		<wapi_url>/vdiscoverytask/ZG5zLmNk</wapi_url>			
	POST	aXNjb3ZlcnlfdGFzayRIYzluZXUtd2Vz	{"action":"START"}		
Otant a vDi		dC0x:ec2.eu-west-			
Start a vDiscovery task	ourl k	1? function=vdiscover control	on/icon' V DOST "https://grid		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRIYzluZXUtd2VzdC				
		u-west-1?_function=vdiscovery_control" -			
	UN.002.0	a moot in_landuon=valoudvery_control	a [action : 0 17 ii v 1]		

Permissions

	REST Method	API Call
Operation	Metriou	Sample cURL Command
		Sample Output
Get permissions	GET <wapi_urls "https:="" -k="" -u="" -x="" admin:infoblox="" curl="" get="" grid-="" master="" permission="" permission?_return_as_object='1"' td="" v2.12="" wapi="" {"result":<=""></wapi_urls>	
	GET	<wapi_url>/permission?role=DHCP%20Admin</wapi_url>
		admin:infoblox -X GET "https://grid-
		api/v2.12/permission?role=DHCP%20Admin&_return_as_object=1"
	{"result": [{"_ref":	
Get permissions for a role (DHCP Admin)	"permission XdfcGFyZ CP%20Ac "permis "resourc "role": "	on/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZ ZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DH dmin/WRITE", sion": "WRITE", ce_type": "NETWORK_VIEW", DHCP Admin"
	aWx0ZXJ bi4:DHCF "permiss "resource	on/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5kaGNwX21hY19m lfcGFyZW50JDAuLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1p 2%20Admin/WRITE", sion": "WRITE", ce_type": "DHCP_MAC_FILTER", DHCP Admin"

```
{"_ref":
                           permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ro
                           Y3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5yb2xIJERIQ1AqQWRtaW4
                           u:DHCP%20Admin/WRITE",
                             "permission": "WRITE",
                             "resource_type": "GRID_DHCP_PROPERTIES",
                             "role": "DHCP Admin"
                                    <wapi_url>/permission?group=cloud-api-only
                           curl -k -u admin:infoblox -X GET "https://grid-
                           master/wapi/v2.12/permission?group=cloud-api-only"
                           {"result":
                            [{"_ref":
                           permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ro
                           Y3BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5hZG1pbl9ncm91cCQuY2x
                           vdWQtYXBpLW9ubHku:cloud-api-only/WRITE",
                             "group": "cloud-api-only",
                             "permission": "WRITE",
                             "resource type": "GRID DHCP PROPERTIES"
                             {"_ref":
                           "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy50ZW5hbnRfcGFy
                           ZW50JGFsbC4uLmNvbS5pbmZvYmxveC5vbmUuYWRtaW5fZ3JvdXAkLmNsb3VkL
                           WFwaS1vbmx5Lg:cloud-api-only/WRITE",
                             "group": "cloud-api-only",
                             "permission": "WRITE".
Get permissions for a group
                             "resource_type": "TENANT"
                             },
                           "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZ
                           XdfcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1
                           hcGktb25seS4:cloud-api-only/WRITE",
                             "group": "cloud-api-only",
                             "permission": "WRITE",
                             "resource_type": "NETWORK_VIEW"
                             },
                           "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc
                           19wcm9wZXJ0aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG
                           91ZC1hcGktb25seS4:cloud-api-only/WRITE",
                              "group": "cloud-api-only",
                              "permission": "WRITE",
                              "resource_type": "GRID_DNS_PROPERTIES"
```

Export a CSV file

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

	API Call	Sample Body					
Method	0 1 1101 0						
curi -k -u admin:inrobiox -H 'content-type: application/json' -X POST "https://grid-							
	api/vz.1z/nieop?_runction=csv_export -d { _object : rec	cord.nost }					
		025244400220					
"url": "https://grid-master.2/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv"							
}	3						
	<url_from_the_previous_output></url_from_the_previous_output>						
GET 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-downlo	ad' "https://grid-					
master/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" -o "Hostrecords.csv"							
		T (1) (1) (1) (1) (1) (1)					
		{"token": "eJyIUMo="}					
"eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\n							
	master/wa ("token": 'eJylUMF Bg7SmhE myN8x\n0 3OtPJLVo nA/yqiN\n /dtYZ9Mtp 'url": "http GET curl -k -u : master/htr #Hostrecc POST curl -k -u : master/wa 'eJylUMF Bg7SmhE myN8x\n0 3OtPJLVo nA/yqiN\n	Sample cURL Command Sample Output POST <wapi_url>/fileop?_function=csv_export curl -k -u admin:infoblox -H 'content-type: application/json' -X POS master/wapi/v2.12/fileop?_function=csv_export" -d '{"_object": "rec "token": 'eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz Bg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiR myN8x\n0qRn4CrYiaqomqouVpus4VCtlZxmFz8yWjP/I0YXHvJcN 30tPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/am nA/yqiN\ntlrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMS /dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n", 'url": "https://grid-master.2/http_direct_file_io/req_id-DOWNLOAD- GET <url></url></wapi_url>					

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.

Omeration	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
Export results of a WAPI call	POST	<wapi_url>/fileop?_function=read</wapi_url>	{"_encoding":"JSON", "_filename":"allhosts.info.com.j son","_object":"record:host", "_return_fields":"name,extattrs ", "zone":"info.com"}
		admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/fileop?_function=read" -d	T "https://grid-

'{"_encoding":"JSON","_filename":"allhosts.info.com.json","_object":"record:host","_return_fields":"
name,extattrs","zone":"info.com"}'

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

Get Lease History files

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

	REST	API Call	Sample Body	
Operation	Method			
	Sample cURL Command			
	POST	Sample Output <wapi_url>/fileop?_function=getleasehistoryfiles</wapi_url>	{"member": "m1.infoblox.com", "start_time": "1514764800", "end_time":"1533686400"}	
	master/w "start_tim	admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/fileop?_function=getleasehistoryfiles" -d '{"meme": "1514764800", "end_time": "1533686400"}'		
Initiate a CSV export	{"token":			
Download the	GET	<pre><url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id- DOWNLOAD- 0202150809630902/dhcpLeaseHistory.csv.gz</url_from_the_previous_output></pre>		
CSV file	curl -k -u	admin:infoblox -H 'content-type: application/force-downlo	ad' "https://grid-	
	master/ht "dhcpLea	tp_direct_file_io/req_id-DOWNLOAD-020215080963090 seHistory.csv.gz" aseHistory.csv.gz file is saved in the present working dire	2/dhcpLeaseHistory.csv.gz" -o	
	POST curl -k -u	<pre><wapi_url>/fileop?_function=downloadcomplete admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/fileop?_function=downloadcomplete" -d '{"toker</wapi_url></pre>	{"token": "eJyIUMo="} T "https://grid-	
Remove the stored file using the token	"eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\n Bg7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvr myN8x\n0qRn4CrYiaqomqouVpus4VCtlZxmFz8yWjP/I0YXHvJcNGVW1pnlyjyVUBGvFnGgUSPZ			
	3OtPJLV0 hA/yqiN\r	o\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/am itIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMS p3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n"}'	Jok0iK/XAuCublgc13Z53Hyf1nu	

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

Import a file (Certificate)

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

	REST Method	API Call	Sample Body
Operation	Mictilioa	Sample cURL Command	
		Sample Output	
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>	
	curl -k -u	admin:infoblox -H 'content-type:application/json' -X POS'	T "https://grid-
		api/v2.12/fileop?_function=uploadinit"	
Initiate file upload	PoE\n8ZI RwzfWZy 40aiRbOI eJHE7WI HVrDftks	FOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbXLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AvFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvlbCP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2RVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n", ps://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1001/	VSMR+pjGQQQRFMgAv4UbxL C/KwqxqvKqyUVeFWmEiuLXAg UVT0EWtRRlbho+nuplsw8f9eF CiSQnGdl7ZQHpUHoNFaSfu3
	,	<url from="" output="" previous="" the=""></url>	
Upload contents of a CA certificate	POST	Example: https://x.x.x.x/http_direct_file_io/req_id- UPLOAD-1001/import_file	file=@ca.cert.pem
a CA certificate	curl -k -u admin:infoblox -H 'content-type:multipart-formdata' "https://grid-		
	master/ht	tp_direct_file_io/req_id-UPLOAD-1001/import_file" -F file	
	POST	<wapi_url>/fileop?_function=uploadcertificate</wapi_url>	{"certificate_usage":"EAP_CA", "member": "infoblox.localdomain", "token":"eJydk=="}
Upload the CA Certificate	master/w '{"certifica "infoblox. PMgQXb SMR+pjG KwqxqvK VT0EWtF	admin:infoblox -H 'content-type:application/json' -X POS' api/v2.12/fileop?_function=uploadcertificate" -d ate_usage":"EAP_CA","member": localdomain","token":"eJydUMFOwzAMvftHymVt09Fu5ThwS2X7PL3IPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2hGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1qyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1CIKUcRRIbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hIr	T "https://grid- Y0JiGhgTY4W22SDkttYpIUbX9 H+05t0anEy6sPWy70OFBD8AV IXT5GXZtmIF/pjNboxoE/nvIbC/ paGLrvhlR6ypLKIbrqPqXHoE2U mq64rKaXt5nWDh4dd6mvw4cCi

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

Import a CSV file

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

Operation	REST Method	API Call	Sample Body
Operation	Sample cURL Command		
		Sample Output	
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>	
Initiate file upleed	curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=uploadinit"		
Initiate file upload		IPwzAMvfuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5Ck 9KaEP0ko/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJG	

		wFexFVVRNVddVk4l6tdyUGwin2eQHhmsWvMfowl2		
	A0kt\n3l6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKl20ioy59 Qt\n2fz+8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdk nFTxE/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><url_from_the_previous_output></url_from_the_previous_output>Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1002/import_file</url>	file=@HostRecords.csv	
the GGV file		admin:infoblox -H 'content-type:multipart/form-data' "h ct_file_io/reg_id-UPLOAD-1002/import_file" -F file=@F		
	POST	<wapi_url>/fileop?_function=csv_import</wapi_url>	{"action":"START", "on_error":"CONTINUE", "update_method":"MERGE", "token":"eJydU=="}	
Upload the CSV file	curl-k-u admin:infoblox-H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=csv_import" -d '{"action":"START","on_error":"CONTINUE","update_method":"MERGE","token":"eJydUE1PwzAM 'tuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0VvT4D\nX9KaEP0 ko/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJGI30RDJIIIiGcEtYa7cCk4zfXHkrxhp\n1DNwFexF VVRNVddVk4l6tdyUGwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0XsadBINvf6A0kt\n3l6enre7h SikMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKl20ioy59Qt\n2fz+8ZDK5 S9htOomsWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdknFTxE/t\nA1mT sA1jXfYFNGOU6g==\n")' {"csv_import_task": {"_ref": "csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5", "admin_name": "admin", "file_name": "import_file", "file_size": 215, "import_id": 5, "lines_failed": 0, "lines_processed": 0, "lines_warning": 0, "on_error": "CONTINUE", "operation": "UPDATE", "separator": "COMMA', "start_time": 1537512228, "status": "PENDING", "update_method": "MERGE"			
		<pre><wapi_url>/csvimporttask/b25lLmNzdl9pbXBvcnRfd(admin:infoblox -X GET "https://grid- api/v2.12/csvimporttask/b25ll_mNzdl9pbXBvcnRfdGEz</wapi_url></pre>		
Verify the status of the CSV import task	master/wapi/v2.12/csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5" {"_ref": "csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5", "admin_name": "admin", "end_time": 1537512233, "file_name": "import_file", "file_size": 215, "import_id": 5, "lines_failed": 0, "lines_processed": 3, "lines_warning": 0, "on_error": "CONTINUE", "operation": "UPDATE", "separator": "COMMA", "start_time": 1537512233,			

"status": "COMPLETED", "update_method": "MERGE"
}

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

Generate a certificate signing request (CSR)

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

	REST Method	API Call	Sample Body
Operation	Sample cURL Command		
	Sample Output		
Initiate a CSV export	POST	<wapi_url>/fileop?_function=generatecsr</wapi_url>	{"certificate_usage": "ADMIN", "algorithm":"SHA-512", "email": "admin@api- testing.com", "cn": "API-Testing", "country": "US", "state": "California", "locality": "Santa Clara", "org": "Infoblox", "org_unit": "TME", "member": "infoblox.localdomain"}
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
	master/wapi/v2.12/fileop?_function=generatecsr" -d '{"_object": "record:host"}'		
	{"token": "eJyljrEKwjAURX+IZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCI/24z6Orgei733PskeB+MeyhvLJI8\ng nQ2nfNUCEEIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brw7mhMr0zOFFGR2X9b7a1 EUZ\nJzzhIHkGQkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXlttfhFimLXaG2y9UnClxdfe+aDpm3w/ 83\njA7OXxXyegM9j1mw\n", "url": "https://10.196.205.12/http_direct_file_io/req_id-DOWNLOAD- 0202172915716757/cert.pem"}		
	02021728	<pre><url_from_the_previous_output></url_from_the_previous_output></pre>	
Download the	GET	Example: https://x.x.x.x/http_direct_file_io/rreq_id-DOWNLOAD-0202172915716757/cert.pem	
CSV file	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-		
	master/http_direct_file_io/req_id-DOWNLOAD-0202172915716757/cert.pem" -o "cert.pem"		
		file is saved in the present working directory#	
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJylw\n"}
Remove the stored file using the token	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : "eJyljrEKwjAURX+IZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCI/24z6Orgei733PskeB+MeyhvLJI8\ng nQ2nfNUCEEIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brw7mhMr0zOFFGR2X9b7a1		
Diagram and that while	83\njA7O	thIHkGQkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXlttfhF XxXyegM9j1mw\n"}'	imLXaG2y9UnClxdfe+aDpm3w/

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

Grid database backup and restore

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

	REST	API Call	Sample Body		
Operation	Method				
o por union		Sample cURL Command			
	DOOT	Sample Output			
	POST	<wapi_url>/fileop?_function=getgriddata</wapi_url>	{"type": "BACKUP"}		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-				
		api/v2.12/fileop?_function=getgriddata" -d '{"type": "BACI	KUP"}'		
	{"token":				
		PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGo			
Initiate a backup		NqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQ			
		\\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLl6Ir5byn5eF			
		2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJN			
		4vGKqfJ\nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktlaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b 9l3Hsn6\nS8JPEyl5m7ENY33xBbQAllA=\n",			
		ps://grid-master/http_direct_file_io/req_id-DOWNLOAD-	1001/database bak"		
	}	po.//gna master/mtp_arreot_me_lo/req_la bevive_o/tb	100 1/database.bark		
		<url_from_the_previous_output></url_from_the_previous_output>			
	GET	Example: https://x.x.x.x/http_direct_file_io/req_id-			
Download the		DOWNLOAD-1001/database.bak			
backup	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-				
	master/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak" -o "database.bak"				
		e.bak file is saved in the present working directory#			
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJydUA="}		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-				
	master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" :				
Remove the	"eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2D				
stored file using		NqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQ			
the token	ubqKdww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLl6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZI rg/IA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY				
		nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktlaajF6ucpG	g i miviliviOmbyqinzku/CivvSiVI+D		
	9l3Hsn6\nS8JPEyl5m7ENY33xBbQAllA=\n"}'				

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

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

Operation	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
		<wapi_url>/fileop?_function=uploadinit</wapi_url>	
		dmin:infoblox -H 'content-type: application/json' -X POS pi/v2.12/fileop?_function=uploadinit"	T "https://grid-
Initiate a file upload		OwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX	
·	RwzfWZyF	N+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8A √ww0∖n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC	:/KwqxqvKqyUVeFWmEiuLXAg
		2BpBZv\nL0/Pm+1CIKUoaGLrvhlR6ypLKlbrqPqXHoE2l VpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4c	

	HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n", "url": "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" }		
Upload the backup	POST	<url><url_from_the_previous_output></url_from_the_previous_output>Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/import_file</url>	file=@database.bak
file	curl -k -u admin:infoblox -H 'content-type:multipart-formdata' "https://grid-master/http direct file io/req id-UPLOAD-1001/import file" -F file=@database.bak		
	POST	<pre><wapi_url>/fileop?_function=downloadcomplete</wapi_url></pre>	{"mode":"NORMAL", "token": "eJydUw="}
Restore the database	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=restoredatabase" -d '{"mode":"NORMAL","token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9P MgQXbhwS2X7PL3IPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVS MR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/K wqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UV T0EWtRRlbho+nuplsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImg64rKaXt5nWDh4dd6mvw4cCiS		
	QnGdl7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9Ykrl1Yn38Bt1KUqw==\n"}'		

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

Grid upgrade

For a grid-wide upgrade, you can use the *upgrade* function. This function provides control over the Grid upgrade. The upgrade process normally is as follows:

- 1. Upload the upgrade file using the set_upgrade_file function call in object fileop.
- 2. Call this function with 'action' set to 'UPLOAD', this will prepare the uploaded file for deployment.
- 3. Call this function with 'action' set to 'DISTRIBUTION_START', which will start the Grid distribution process.
- 4. Call this function with 'action' set to 'UPGRADE', which will restart the appliances with the new NIOS version.

Ones	Operation		API Call	Sample Body	
Operation			Sample cURL Command		
			Sample Output		
		POST	<pre><wapi_url>/fileop?_function=uploadinit</wapi_url></pre>		
			admin:infoblox -H 'content-type: application/json' -X POS api/v2.12/fileop?_function=uploadinit"	T "https://grid-	
Upload the upgrad e file	Initiate a file upload	{"token": "eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7P PoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFM		VSMR+pjGQQQRFMgAv4UbxL :/KwqxqvKqyUVeFWmEiuLXAg UVT0EWtRRlbho+nupIsw8f9eF CiSQnGdI7ZQHpUHoNFaSfu3	
th	Upload the	POST	<url curl_from_the_previous_output="" =""> </url>	file=@upgrade-file.bin	
upgrad e file			admin:infoblox "https://grid-master/http_direct_file_io/requpgrade-file.bin -F filedata=@upgrade-file.bin	_id-UPLOAD-1001/import_file" -	

		POST	<wapi_url>/fileop?_function=set_upgrade_file</wapi_url>	{"token": "eJydUw="}	
			admin:infoblox -H 'content-type: application/json' -X POS	T "https:// <mark>grid</mark> -	
	Set it as	master/wapi/v2.12/fileop?_function=set_upgrade_file" -d '{"token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYplUbX9PMgQXbhwS2X7PL3			
	the	IPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMg			
	upgrad e file	Av4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWm			
	e ille	EiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupl			
		sw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI7ZQHpUHoN FaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\n"}'			
			<pre><wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_fun</wapi_url></pre>	("a ations", "LIDLOAD")	
	upgrade	POST	ction=upgrade	{"action": "UPLOAD"}	
functi			curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
UPLOAL	O" the file	master/wapi/v2.12/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=upgrade" -d '{"action": "UPLOAD"}'			
Call the	upgrade	POST	<pre><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_fun</wapi_url></pre>	{"action":	
	to start		ction=upgrade	"DISTRIBUTION_START"}	
the dist	ribution	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox? function=upgrade" -d '{"action":			
prod	ess	"DISTRIBUTION_START"}'			
	Call the <i>upgrade</i>		<pre><wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_fun ction=upgrade</wapi_url></pre>	{"action": "UPGRADE"}	
	to start	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-			
the up	grade	master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function=upgrade" -d '{"action": "UPGRADE"}'			
		GET	<wapi_url>/upgradestatus?type=GRID</wapi_url>		
		curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-			
		master/wapi/v2.12/upgradestatus?type=GRID" [("_rof": "upgradestatus/! i51aCdt;VVV/Rla3PhdH\/z IH\/w73 lh7C\/fa3PhdH\/z Ihfahlay"			
		[{"_ref": "upgradestatus/Li51cGdyYWRlc3RhdHVzJHVwZ3JhZGVfc3RhdHVz:Infoblox", "element_status": "WORKING",			
		"grid_state": "DEFAULT",			
Chec	k the	"group_state": "GROUP_NONE",			
upgrade		"ha_status": "NOT_CONFIGURED",			
		"message": "", "steps_completed": 0,			
		steps_completed : 0, "steps_total": 0,			
		"type": "GRID",			
		"upgrade_state": "NONE",			
		upgrad	e_test_status": "NONE"		
		}]			

Traffic Capture

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

Operation	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
	Sample Output			
	POST	<pre><wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:i nfoblox.localdomain?_function=capture_traffic_status</wapi_url></pre>		
Check the current capture status	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=captu re_traffic_status" {"file_exists": false,			

	"file_size": 0,	—	
	"file_size": 0, "status": "STOPPED"}		
	<pre></pre>		
	POST nfoblox.localdomain?_function=capture_traffic_control		
	&action=START&interface=ALL		
Initiate the capture	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
·	master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=captu		
	re_traffic_control&action=START&interface=ALL"		
	{}		
	POST <wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:i</wapi_url>		
	nfoblox.localdomain?_function=capture_traffic_status		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
Check the capture	master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=cap	วัน	
status	re_traffic_status"		
	{"file_exists": true, "file_size": 12288,		
	"status": "RUNNING"}		
	<pre></pre> <pre></pre> <pre><pre><pre><pre><pre></pre> <pre></pre> <pre><pre></pre> <pre></pre> <pre></pre> <pre><pre></pre> <pre><pre></pre> <pre></pre> <pre></pre> <pre><pre></pre> <pre></pre> <pre><pre><pre></pre> <pre><pre></pre> <pre><pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		
	POST nfoblox.localdomain?_function=capture_traffic_control		
	&action=STOP&interface=ALL		
Stop the capture	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
	master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain?_function=captu		
	re_traffic_control&action=STOP&interface=ALL"		
	{}		
	<wapi_url>/fileop?_function=getmemberdata&membe</wapi_url>		
	POST r=infoblox.localdomain&type=TRAFFIC_CAPTURE_F		
	ILE		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
	master/wapi/v2.12/fileop?_function=getmemberdata&member=infoblox.localdomain&type=TRAFF IC_CAPTURE_FILE"		
	{"token":		
Generate the	"eJy9kcFuwyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQqZ2Tz9Tab3utgOW8f9bfNhSV	Ν	
capture file	ncD\nr3uCQdppDn6RwXriGFILM3W2HeyV2knHE25Oz6RuQgNn3RHHiQRoFzMEMwEQZWQgb		
	kPWyuXkstJX\nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzU9pyjLKREI5VtCcp7EKy	yi	
	BdgM4MGoxN\nvf4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5hAY4KRZ8kmT/IKgnl	R	
	$qGd3B9jQ0nvbf\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
	5cz6/HmG4ehtGquBkW\nl1Xv3nZwftnHe0HmcHasjltkWxQ7owc1Q7Ag7egaf++qyDFOqm0cmMkt		
	Ab60n42doiZQa+kPIMm5\nYA==\n",		
	"url": "https://10.196.205.42/http_direct_file_io/req_id-DOWNLOAD-		
	1119203448225965/infoblox.localdo_0_2019-11-19-20-34-48_tcpdumpLog.tar.gz"}		
	Example: https://x.x.x.x/http_direct_file_io/req_id-		
	GET DOWNLOAD-		
	1119203448225965/infoblox.localdo_0_2019-11-19-		
Download the	20-34-48_tcpdumpLog.tar.gz		
traffic capture file	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-		
	master/http_direct_file_io/req_id-DOWNLOAD-1119203448225965/infoblox.localdo_0_2019-11-		
	19-20-34-48_tcpdumpLog.tar.gz" -o "trafficCapture.tar.gz"		
	# trafficCapture.tar.gz file is saved in the present working directory#		
	POST <wapi_url>/fileop?_function=downloadcomplete {"token": "eJy9kcA=="}</wapi_url>		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-		
Remove the	master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" :		
stored file using	"eJy9kcFuwyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQqZ2Tz9Tab3utgOW8f9bfNhSW		
the token	ncD\nr3uCQdppDn6RwXriGFILM3W2HeyV2knHE25Oz6RuQgNn3RHHiQRoFzMEMwEQZWQgb kPWyuXkstJX\nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzU9pyjLKREI5VtCcp7EKyi		
	BdgM4MGoxN\nvf4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5hAY4KRZ8kmT/IKgnI		
	Dugivi4iviGUXINIIVI4EUDL03H40HHZ i WHg I FHVKECVDICOII Y AF VJADSPADZDHAY 4KKZ8KM I /IKGNI	Ľζ	

qGd3B9jQ0nvbf\nSLKNUEZhViHTXy+h7f4LhTPBnGXYk844wKbXaRjdv+Mz9osDepJWmamPVY
5cz6/HmG4ehtGquBkW\nl1Xv3nZwftnHe0HmcHasjItkWxQ7owc1Q7Ag7egaf++qyDFOqm0cmMkt
Ab60n42doiZQa+kPIMm5\nYA==\n"}'

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

Support Bundle

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

	REST	API Call	Sample Body		
Operation	Method		Jampie 20ay		
Operation	Sample cURL Command				
	Sample Output				
	POST	<pre><wapi_url>/fileop?_function=get_support_bundle</wapi_url></pre>	{"member": "infoblox.local"}		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-				
	master/wapi/v2.12/fileop?_function=get_support_bundle" -d '{"member": "infoblox.local"}'				
	{"token":				
		uwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFX			
Initiate the support		OlmrPHBLSJYR5CRtdBmsP1kb9QalVa4o/Kk7UIHFzUQL			
bundle download	a7UDbW7\nQ9CzWhEsyZGVVV00ZVE2IFf5rm4Y8dfV4qZI8yh4CwH9Q5axpqCM15TRKs9SEaS				
		KRA28yp\nd9By055fT8/nfbvJWc5zXuRlw3lV57vML4jWh			
		0xvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0f			
		4sMFGU8fwKpI∖nDlpN0kOwlOyMnftW1eSUUug7BG1wC	TCNNNtVVJK6JXE+/AJH0pUU=\		
	n",				
		ps://10.196.205.42/http_direct_file_io/req_id-DOWNLOA 059667804/supportBundle.tar.gz"}	D-		
	01000020	<pre>curl from the previous output></pre>	I		
		Example: https://x.x.x.x/http_direct_file_io/req_id-			
	GET	DOWNLOAD-			
Download the		0106062059667804/supportBundle.tar.gz			
support bundle	curl -k -u	admin:infoblox -H 'content-type: application/force-downlo	aad' "https://grid-		
oupport barraio	master/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.tar.gz" -o				
	"infoblox.local_supportBundle.tar.gz"				
		c.local_supportBundle.tar.gz file is saved in the present w	orking directory#		
	POST	<pre><wapi_url>/fileop?_function=downloadcomplete</wapi_url></pre>	{"token": "eJytUUFU=\n"}		
	curl -k -u	admin:infoblox -H 'content-type: application/json' -X POS			
	master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" :				
Remove the	"eJytUUFuwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFXCV9faFSe+2lB9Cws8Msgx				
stored file using	+DU\nSOImrPHBLSJYR5CRtdBmsP1kb9QalVa4o/Kk7UIHFzUQLIgA6Bc9BW0AiNQiENyStcQdu				
the token	a7UDbW7\nQ9CzWhEsyZGVVV00ZVE2IFf5rm4Y8dfV4qZI8yh4CwH9Q5axpqCM15TRKs9SEaS				
the token	O0wUY9KRA28yp\nd9By055fT8/nfbvJWc5zXuRlw3lV57vML4jWhcNi5KRo6BwdP6NJlfy0jKiOdn/				
	dEtuaJJDxvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0fPwdEpw+9swW5kSZSnkdv+yh				
		4sMFGU8fwKpI\nDlpN0kOwlOyMnftW1eSUUug7BG1wC	cfChnNfWJK6JXE+/AJH0pUU=\		
	n"}'				

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

Sample paging request

When a search result yields a large number of results, you can use paging. To start a paging request, the initial search request must have _paging and _return_as_object set to 1, and _max_results set to the desired page size. The returned results object will contain the next_page_id field and the result field set to the first page of results. Note that the next_page_id field only contains URL-safe characters so it can be used as is and no quotation characters are required for subsequent requests. To get the subsequent results, you can re-send GET requests to the original object and set _page_id to the ID string returned in the previous page of results.

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

	REST Method	API Call		
Operation	Sample cURL Command			
	Sample Output			
	GET	<pre><wapi_url>/record:host?_paging=1&_return_as_object=1&max_results=4</wapi_url></pre>		
		admin:infoblox -X GET "https://grid-		
Fetch the first 4 host records	## (#next_pater/w ## (#next_pater ## (#next_pater) ## (#next_pat	api/v2.12/record:host?_paging=1&_return_as_object=1&_max_results=4" age_id": 104d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f bf6ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e3055 13b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d219768 7b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f598 1277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c 125034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43f 12dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371", 10st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", 1drs": 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:		
	"view": "default"			
	}, {"_ref":			

```
record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLm1vbml0b3l:monitor.demo.com/default"
              "ipv4addrs":
               [{"_ref":
             "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmRlbW8ubW9uaXRvci4
            xLjEuMS41MC4:1.1.1.50/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/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8udGVzdC4yLjlu
            Mi4xMTAu:2.2.2.120/test.info.com/default",
                "configure_for_dhcp": false,
               "host": "test.info.com",
               "ipv4addr": "2.2.2.120"
              "name": "test.info.com",
              "view": "default"
            }]}
                      <wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec33010
                      85f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6
                      ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e30557
                      9e6fb083b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a1
              GET
                      9d2197686657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef
                      52d09c11504d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a3
                      04af4beb836a7673cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5a
                      d2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-
                      e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371
            curl -k -u admin:infoblox -X GET "https://grid-
            master/wapi/v2.12/record:host? paging=1& return as object=1& page id=789c55904d4ec3301085f
            77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce2601b70eb
            3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3
            237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d2197686657ac17b8fd1f55a1507
Query the
            afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa72
next set of
            65321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce5034416a511
 records
            fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f81
            9a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371"
            {"next_page_id":
             "789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef
            966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799
            eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a
            9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182
            516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b58
            4305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad98
            7547f20075aa083dcfe0072798173-
            a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e",
             [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnMx:s1.info.com/default",
               'ipv4addrs":
               [{"_ref":
```

```
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uczEuMTAuMT
             AuMTAuMjAu: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/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaDluNS41LjU
             uOTAu: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/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uZTluOS45Ljku
             MTAwLg: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"
             record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmRldnN0YWNr:devstack.info.com/defa"
             ult",
               "ipv4addrs":
               [{"_ref":
             "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZGV2c3RhY2
             suMTcyLjI2LjEuMjAu: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"
             }]}
                       <wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec3300c
                       44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b
                       051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799e
Query the
                       b010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b
next set of
               GET
                       9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b
 records
                       38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89
                       a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba68
                       7e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-
                       a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e
```

```
curl -k -u admin:infoblox -X GET "https://grid-
master/wapi/v2.12/record:host? paging=1& return as object=1& page id=789c55904b6ec3300c44f
7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4
ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9
e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346
cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac352c2a61450b43
385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b584305971798b1a08a9843
09b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe007
2798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e"
{"result":
[{"_ref":
"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnJvdXRlcg:router.info.com/default",
 "ipv4addrs":
 [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucm91dGVyLjE
wMC4xMC4xMC4xLg: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

	REST	API Call	Sample Body
Operation	Method	S	ample cURL Command
			Sample Output
	POST	<wapi_url>/request</wapi_url>	[{"method": "GET", "object": "record:host", "data": {}, "args":{"_return_fields":"name,dns_name,aliases,dns_a liases,ipv4addrs,configure_for_dns"}}, {"method": "GET", "object": "record:a", "data": {},"args": {}}, {"method": "GET", "object": "record:ptr", "data": {},"args": {}}]
	master/wa '[{"method" ns_aliases	pi/v2.12/request" -d ":"GET","object":"record:host s,ipv4addrs,configure_for_dn	be:application/json' -X POST "https://grid- t","data":{},"args":{"_return_fields":"name,dns_name,aliases,d s"}},{"method": "GET","object": "record:a","data": {},"args": htt" "data": {} "args": {}}"
Get Host/A/PTR records	[[{"_ref": "record:ho "configui "dns_nai "ipv4add [{"_ref": "record:ho TcyLjI2LjE "configui "host": "ipv4add], {"_ref": "configui "dns_nai "ipv4add [{"_ref": "record:ho EwMC4:10 "configui "host": "ipv4adi "mac": "ipv4adi "mac": "jpv4adi "mac": "];	re_for_dns": true, me": "host1.test.com", lrs": st_ipv4addr/ZG5zLmhvc3Rf' suMjEu:172.26.1.21/host1.test ure_for_dhcp": false, "host1.test.com", ldr": "172.26.1.21" record:host/ZG5zLmhvc3Qk ure_for_dns": true, ure=""""""""""""""""""""""""""""""""""""	ndWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", YWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuM st.com/default", LjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",
	"name": }], [{"_ref": "record:a/z MA:host.te "ipv4add	est.info.com/default", lr": "172.26.1.100", "host.test.info.com",	mF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEw

```
{"_ref":
"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server."
info.com/default",
 "ipv4addr": "10.10.10.2",
"name": "server.info.com",
 "view": "default"
[{"_ref":
"record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTl3LjAuMC4xLmxvY2
FsaG9zdA:1.0.0.127.in-addr.arpa/default",
  "ptrdname": "localhost",
  "view": "default"
  },
  {"_ref":
"record:ptr/ZG5zLmJpbmRfcHRyJC4yLmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLj
AuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4ubG9jYWxob3N0:1.0.0.0.0.
"ptrdname": "localhost",
  "view": "default.cloud"
}]]
```

Delete a host record

Onenation	REST Method	API Call	Sample Body
Operation		Samp	ole cURL Command
		•	Sample Output
Delete a Host	POST	<wapi_url>/request</wapi_url>	[{"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"}]
record	master/w "STATE:/ "record:h "_ref"},"ei "##STATI [{"host_na" "host_re	api/v2.12/request" -d '[{"method": ASSIGN","data":{"host_name":"ho ost","data": {"name":"##STATE:ho nable_substitution": true,"discard' E:host_ref:##","enable_substitution ame": "host1.test.com",	application/json' -X POST "https://grid- pst1.test.com"}},{"method":"GET","object": pst_name:##"},"assign_state": {"host_ref": ": true},{ "method": "DELETE", "object": pon": true,"discard": true},{"method": "STATE:DISPLAY"}]' //x0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"

Get next available IP address

	REST	API Call	Sample Body		
Operation	Method		, , , ,		
	Sample cURL Command Sample Output				
Get next available IP address from an IPv4 subnet	POST	<wapi_url>/request</wapi_url>	[{"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}]		
	master/w "192.168 "##STAT	api/v2.12/request" -d '[{"method": ' .1.0/24"},"assign_state": {"netw_re E:netw_ref:##","args": {"_function"	oplication/json' -X POST "https://grid- 'GET", "object": "network", "data": {"network": f": "_ref"}, "discard": true}, {"method": "POST", "object": : "next_available_ip"}, "enable_substitution": true}]'		
	[{ ips : [[92.168.1.1"]}]	[("mothod": "DOCT"		
Get next available IP address from an IPv6 subnet	POST	<wapi_url>/request</wapi_url>	[("method": "POST", "object": "record:host", "data": {"configure_for_dns": false,		
	master/w {"configui "ipv6addr "ipv6netw "network_ {"_return_ [{"_ref": "record:h mRlbW8u	api/v2.12/request" -d '[{"method": 're_for_dns": false,"ipv6addrs":[{"cc ":{"_object_function":"next_availat vork","_object_parameters":{"netwo _view":"sandbox"}}}],"name": "host _fields": "name" }}]'	ole_ip","_result_field":"ips","_object": ork":"2600:6801:1106:f00::f00/120", .demo.com","network_view": "sandbox"},"args": aG9zdF9yb290MS4wLjE1NzQxOTEwMTc2NzUuY29tL		

Pre-provision a Grid member

	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
Pre-provision a grid member	POST	<wapi_url>/request</wapi_url>	[{"method": "POST", "object": "member", "data": {"host_name": "autojoin01.localdomain",
	master/w "autojoin("172.16.0" "VNIOS"} {"method {"pre_pro_["dhcp","c	api/v2.12/request" -d '[{"mo 01.localdomain", "vip_settin 0.1", "subnet_mask": "255.2 ,"assign_state": {"member ": "PUT", "object": "##STAT visioning": {"hardware_info dns", "enterprise", "vnios", "rp r/b25ILnZpcnR1YWxfbm9k	["method": "STATE:DISPLAY"]] -type:application/json' -X POST "https://grid- ethod": "POST", "object": "member", "data": {"host_name":
Pre-provision an IB-FLEX member	POST	<wapi_url>/request</wapi_url>	[{"method": "POST", "object": "member", "data": {"host_name": "flex-member1.localdomain",

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

["member/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain", {"member_ref": "member/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain"}]

Enable DHCP service on a member

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

Get permissions for an object

Operation	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
Get permissions for an object	POST	<wapi_url>/request</wapi_url>	[{"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://grid-
master/wapi/v2.12/request" -d '[{"method": "STATE:ASSIGN", "data": {"zone_name":
"test.org"}},{"method": "GET","object": "zone_auth","data": {"fqdn":
"##STATE:zone_name:##"},"assign_state": {"zone_ref": "_ref"},"enable_substitution":
true, "discard": true), {"method": "GET", "object": "permission", "enable substitution": true
},{"method": "STATE:DISPLAY"}]'
[[{"_ref":
"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC4uLi4uY29tLmluZm9ib
G94Lm9uZS5yb2xIJEROUyBBZG1pbi4:DNS%20Admin/WRITE",
 "permission": "WRITE",
 "resource_type": "VIEW",
 "role": "DNS Admin"
 {"_ref":
permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZX"
J0aWVzJDAuLi5jb20uaW5mb2Jsb3qub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:clou
d-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"
[{"host_name": "host1.test.com",
 "host ref":
"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"
```

Add multiple subnets

REST Method	API Call	Sample Body		
Sample cURL Command				
		Sample Output		
POST	<wapi_url>/request</wapi_url>	[{"method": "POST", "object": "network", "data": {"network": "10.10.10.0/24"}}, {"method": "POST", "object": "network", "data": {"network": "10.10.20.0/24"}}, {"method": "POST", "object": "network", "data": {"network": "10.10.30.0/24"}}]		
"10.10.10 "10.10.20 ["network "network	.0/24"}},{"method": "POST", "obj .0/24"}},{"method": "POST","obje /ZG5zLm5ldHdvcmskMTAuMTA /ZG5zLm5ldHdvcmskMTAuMTA	ect": "network","data": {"network": ect": "network","data": {"network": "10.10.30.0/24"}}]' uMTAuMC8yNC8w:10.10.10.0/24/default", uMjAuMC8yNC8w:10.10.20.0/24/default",		
	POST curl -k -u master/w "10.10.10 "10.10.20 ["network "network	POST <wapi_url>/request curl -k -u admin:infoblox -H 'content-type:a master/wapi/v2.12/request" -d '[{"method" "10.10.10.0/24"}},{"method": "POST", "obje "10.10.20.0/24"}},{"method": "POST", "obje ["network/ZG5zLm5ldHdvcmskMTAuMTA"]</wapi_url>		

Add multiple host record

Operation	REST Method	API Call	Sample Body
Operation		Samp	le cURL Command
			Sample Output
Create multiple host records	POST	<wapi_url>/request</wapi_url>	[{"method": "POST", "object": "record:host", "data": {"name":"host-1.info.com",
	master/w: 1.info.con "_ref"},"er {"name":" "_ref"},"er [{"host1_r 1.info.con "host2_r	api/v2.12/request" -d '[{"method": n","ipv4addrs": [{"ipv4addr":"10.10 nable_substitution": true,"discard" host-2.info.com", "ipv4addrs": [{"inable_substitution": true,"discard'ef": "record:host/ZG5zLmhvc3Qkn/default",	pplication/json' -X POST "https://grid- "POST","object": "record:host","data": {"name":"host- 0.10.21"}]},"assign_state": {"host1_ref": ': true},{"method": "POST","object": "record:host","data": pv4addr":"10.10.10.22"}]},"assign_state": {"host2_ref": ': true},{"method": "STATE:DISPLAY"}]' kLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3QtMQ:host- kLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3QtMg:host-

Add network using next available network

Operation	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
Create network using the next available network function within a network container with the EA Site set to "test"	POST	<wapi_url>/request</wapi_url>	[{ "method": "GET", "object": "networkcontainer", "data": {"*Site:": "test"}, "assign_state": {"netw_ref": "_ref"}, "discard": true}, { "method": "POST", "object": "network", "data":{ "network": {"_object_function": "next_available_network", "_result_field":"networks", "_parameters":{ "cidr":24 }, "_object_ref": "##STATE:netw_ref:##" } }, "enable_substitution": true}, {"method": "STATE: DISPLAY"}]

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	
GET		import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://grid-master/wapi/v2.12/record:host?_return_as_object=1" response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False) print(response.text)	
HOST	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://grid-master/wapi/v2.12/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)	
record	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://grid-master/wapi/v2.12/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://grid-master/wapi/v2.12/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)	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 #
PUT	<pre>import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://grid- master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3 Qx: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)</pre>
DELETE	import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://grid- master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3 Qx: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(

Network Object	REST Operatio n	Sample Powershell Code
HOST record	GET	Ignore-SelfSignedCerts \$url = "https://grid-master/wapi/v2.12/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://grid-master/wapi/v2.12/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://grid-master/wapi/v2.12/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
		Ignore-SelfSignedCerts
	PUT	\$url = "https://grid-
		master/wapi/v2.12/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://grid-
		master/wapi/v2.12/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

Network Object	REST Operatio n	Sample Java Unirest Code
HOST record	GET	HttpResponse <jsonnode> response = Unirest.get("https://grid-master/wapi/v2.12/record:host?_return_as_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .asJson();</jsonnode>
	POST	HttpResponse <jsonnode> response = Unirest.post("https://grid-master/wapi/v2.12/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();</jsonnode>
	PUT	HttpResponse <jsonnode> response = Unirest.put("https://grid-master/wapi/v2.12/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();</jsonnode>
	DELETE	HttpResponse <jsonnode> response = Unirest.delete("https://grid-master/wapi/v2.12/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();</jsonnode>

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Using Java OkHttpClient

Network Object	REST Operatio n	Sample Java OkHttpClient Code
HOST record	GET	OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://grid-master/wapi/v2.12/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\":\"\172.26.1.20\"}]}"); Request request = new Request.Builder() .url("https://grid-master/wapi/v2.12/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://grid- master/wapi/v2.12/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://grid- master/wapi/v2.12/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.

Network Object	REST Operatio n	Sample C# Scripts
HOST record	GET	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("grid-master"); var request = new

T T	
	RestRequest("wapi/v2.12/record:host?_return_as_object=1",Method.GET);
	request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=");
	IRestResponse response = client.Execute(request);
	var results = response.Data;
POS	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("grid-master"); var request = new RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmh vc3Qx: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;
DELE ⁻	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("grid-master"); var request = new RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmh vc3Qx: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

Youtube Channel: WAPI Bytes

Infoblox Community: Why use Infoblox WAPIs

Infoblox Community: Getting Started with WAPIs using POSTMAN

Infoblox Community: Getting Started with WAPIs using Insomnia

Infoblox Community: Get more value out of Infoblox APIs

Infoblox Community: Consolidate your WAPIs using the Request Object





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